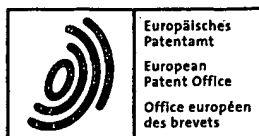


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(54) **COSMETIC COMPOSITIONS CONTAINING AT LEAST ONE HETEROPOLYMER AND AT LEAST ONE GELLING AGENT AND METHODS OF USING THE SAME**

KOSMETISCHE ZUSAMMENSETZUNGEN ENTHALTEND MINDESTENS EIN HETEROPOLYMER UND MINDESTENS EIN GELIERMITTEL UND VERWENDUNGSVERFAHREN

COMPOSITIONS COSMETIQUES CONTENANT AU MOINS UN HETEROPOLYMER ET AU MOINS UN AGENT GELIFIANT, ET PROCEDES D'UTILISATIONS CORRESPONDANTS

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US-A- 4 871 536 **US-A- 6 103 249**

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Description

[0001] The present invention relates to a care and/or treatment and/or make-up composition for the skin, including the scalp, and/or for the lips of human beings, and/or for keratinous materials, such as keratinous fibers, containing a liquid fatty phase, structured with a specific polymer containing a hetero atom. This composition can be stable over time and may be in the form of a tube or stick of make-up such as lipstick, the application of which can produce a glossy deposit with good staying power or long-wearing properties.

[0002] It is common to find a structured, *i.e.*, gelled and/or rigidified, liquid fatty phase in cosmetic or dermatological products; this is especially the case in solid compositions such as deodorants, lip balms, lipsticks, concealer products, eyeshadows and cast foundations. This structuring may be obtained with the aid of waxes and/or fillers. Unfortunately, these waxes and fillers may have a tendency to make the composition matte, which may not always be desirable, in particular for a lipstick or an eyeshadow. Consumers are always on the lookout for a lipstick in stick form which can deposit a film with good staying power or long wearing properties but which is also increasingly glossy.

[0003] For the purposes of the invention, the expression "liquid fatty phase" means a fatty phase which is liquid at room temperature (25°C) and atmospheric pressure (760 mmHg, *i.e.* 101 KPa), composed of one or more fatty substances that are liquid at room temperature, also referred to as oils, that are generally mutually compatible, *i.e.* forming a homogeneous phase macroscopically. The expression "liquid fatty substance" means a non-aqueous liquid medium which is immiscible in all proportions with water, for example, a hydrocarbon-based compound comprising one or more carbon chains each containing at least 5 carbon atoms and possibly comprising at least one polar group chosen from carboxylic acid, hydroxyl, polyol, amine, amide, phosphoric acid, phosphate, ester, ether, urea, carbamate, thiol, thioether and thioester, a silicone compound optionally comprising carbon chains at the end or pendant, these chains optionally being substituted with a group chosen from fluoro, perfluoro, (poly)amino acid, ether, hydroxyl, amine, acid and ester groups; or a fluoro or perfluoro compound such as fluorohydrocarbons or perfluorohydrocarbons containing at least 5 carbon atoms, possibly comprising a hetero atom chosen from N, O, S and P and optionally at least one function chosen from ether, ester, amine, acid, carbamate, urea, thiol and hydroxyl groups.

[0004] The structuring of the liquid fatty phase may make it possible in particular to limit its exudation (or syneresis) from solid compositions, particularly in hot and humid areas and, furthermore, after deposition on the skin or the lips, to limit the migration of this phase into wrinkles and fine lines, a characteristic particularly desirable in a lipstick or eyeshadow. The reason for this is that considerable migration of the liquid fatty phase, particularly when it is charged with coloring agents, may lead to an unpleasant appearance around the lips and the eyes, making wrinkles and fine lines particularly prominent. Consumers often state this migration as being a major drawback of conventional lipsticks and eyeshadows. The term "migration" means movement of the composition beyond its initial site of application.

[0005] Gloss of a lipstick or other cosmetic is generally associated with the nature of the liquid fatty phase. Thus, it may be possible to reduce the amount of waxes and/or fillers in the composition in order to increase the gloss of a lipstick, but in that case the migration of the liquid fatty phase may increase. In other words, the amounts of waxes and of fillers required to prepare a stick of suitable hardness which does not exude at room temperature are a restricting factor on the gloss of the deposit.

[0006] US 4 871 536 discloses a wax based cosmetic composition containing cationic polyamines, polyamides etc.

[0007] To overcome at least one of these drawbacks, the inventors have envisaged replacing all or some of the waxes and/or fillers with polymers for structuring the liquid fatty phase, of the polyamide, polyurea or polyurethane type. Unfortunately, the sticks obtained have a greater or lesser tendency to exude.

[0008] Furthermore, make-up compositions should have good staying power or long-wearing properties over time, *i.e.*, little turning of or change in color over time or a gradual or homogeneous change of the deposit over time. The turning of or change in color of the deposit may be due, for lipsticks, to an interaction with saliva and, for foundations and eyeshadows, to an interaction with the sweat and sebum secreted by the skin. Specifically, a composition which has no staying power or long wearing properties may oblige the user to reapply make-up regularly. However, consumers nowadays wish to enhance the beauty of their face or body while spending as little time as possible in doing so.

[0009] The need thus remains for a composition which does not have at least one of the above drawbacks, which has good stability over time, even in hot and humid countries, and which produces a deposit on the skin or the lips that shows good staying power or long-wearing over time and has a glossy appearance. Furthermore, this composition can be easy to manufacture and can give the deposit a sensation of not drying out, both during application and over time.

[0010] One subject of the invention is a care and/or make-up and/or treatment composition for the skin and/or the lips of the face and/or for superficial body growths, *i.e.*, keratinous materials, such as nails or keratinous fibers, which makes it possible to overcome at least one of the drawbacks mentioned above.

[0011] The inventors have found surprisingly, that the use of at least one specific polymer according to formula (I) combined with at least one gelling agent and less than 5% of wax for a liquid fatty phase makes it possible to obtain a stick whose application to the lips produces a deposit which can have noteworthy cosmetic properties. In particular, the deposit can be at least one of glossy, supple, comfortable and "migration-resistant". Furthermore, the composition can

be stable over time and has been observed not to exude at room temperature.

[0012] The term "stable" refers to a composition which has been observed not to exude at room temperature (25°C) for at least 2 months, for example, at least 9 months.

[0013] The invention applies not only to make-up products for the lips, such as lipsticks, lip glosses and lip pencils, but also to care and/or treatment products for the skin, including the scalp, and for the lips, such as antison care products for the human face, the body or the lips, such as in stick form, make-up removing products for the skin of the face and body, make-up products for the skin, both of the human face and body, such as foundations optionally cast in stick or dish form, concealer products, blushers, eyeshadows, face powders, transfer tattoos, body hygiene products (*i.e.*, products which do not relate to the care, make-up, or treatment of keratin materials) such as deodorant, *e.g.*, in stick form, shampoos, conditioners and make-up products for the eyes such as eyeliners, eye pencils and mascaras, *e.g.*, in cake form, as well as make-up and care products for superficial body growths, for instance keratinous fibers such as the hair, the eyelashes, and the eyebrows or nails.

[0014] Another aspect of the invention is a structured composition comprising at least one liquid fatty phase comprising (i) at least one structuring polymer according to formula (I) (ii) at least one gelling agent for the liquid fatty phase and less than 5% of wax. As used herein, the expression "at least one" means one or more and thus includes individual components as well as mixtures/combinations.

[0015] The composition of the invention can be in the form of a paste, a solid or a more or less viscous cream. It can be a single or multiple emulsion, such as an oil-in-water or water-in-oil emulsion or an oil-in-water-in-oil emulsion, or a water-in-oil-in-water emulsion, or a rigid or soft gel containing an oily continuous phase. For example, the liquid fatty phase can be the continuous phase of the composition. In one embodiment, the composition is anhydrous. In one embodiment, the composition is in a form cast as a stick or in a dish, for example solid, and further example, in the form of an oily rigid gel, such as an anhydrous gel, *e.g.*, an anhydrous stick. In a further embodiment, the composition is in the form of an opaque or translucent rigid gel (depending on the presence or absence of pigments), and in a specific example, the liquid fatty phase forms the continuous phase. In one embodiment, the composition is chosen from molded and poured sticks.

[0016] The structuring of the liquid fatty phase can be modified depending on the nature of the polymer according to formula (I) containing a hetero atom and the gelling agent that are used, and may be such that a rigid structure in the form of a stick is obtained. When these sticks are coloured, they make it possible, after application, to obtain a uniformly coloured and glossy deposit which does not migrate and/or which has good staying power, in particular of the colour over time.

[0017] The composition of the invention can be a composition for the lips, such as a lipstick composition in stick form.

Structuring polymer

[0018] In one embodiment, the at least one structuring polymer according to formula (I) in the composition of the invention is a solid that is not deformable at room temperature (25°C) and atmospheric pressure (760 mmHg, *i.e.* 101 KPa). In a further embodiment, the at least one structuring polymer according to formula (I) is capable of structuring the composition without opacifying it. The inventor thinks that is due to the fact that the polymer does not crystallize. Moreover, the structuration of the liquid fatty phase is due to hydrogen interactions between two molecules of polymer and/or between the polymer and the liquid fatty phase. As defined above, the at least one structuring polymer according to formula (I) of the present invention comprises a polymer skeleton comprising at least one hydrocarbon-based repeating unit comprising at least one hetero atom.

[0019] In a further embodiment, the nature and proportion of the at least one hydrocarbon-based repeating unit comprising at least one hetero atom depends on the nature of a liquid fatty phase of the composition and is, for example, similar to the nature of the fatty phase. For example, not to be limited as to theory, the more polar the hydrocarbon-based repeating units containing a hetero atom, and in high proportion, which corresponds to the presence of several hetero atoms, the greater the affinity of the at least one structuring polymer to polar oils. Conversely, the more non-polar, or even apolar, and lesser in proportion the hydrocarbon-based repeating units containing a hetero atom, the greater the affinity of the polymer for apolar oils.

[0020] In another embodiment, the invention is drawn to a structured composition containing at least one liquid fatty phase structured with at least one structuring polymer, wherein the at least one structuring polymer is a polyamide of formula (I) below. The liquid fatty phase further contains at least one gelling agent for gelling the liquid fatty phase. The at least one liquid fatty phase, the at least one structuring polyamide according to formula (I) and the at least one gelling agent together form a physiologically acceptable medium.

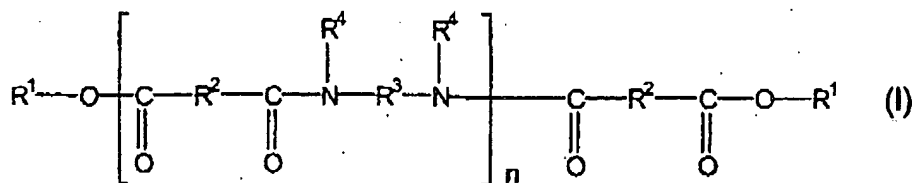
[0021] The structuring polymer according to formula (I) may have a weight-average molecular mass of less than 100,000, such as less than 50,000. In another embodiment, the weight-average molecular mass may range from 1000 to 30,000, such as from 2000 to 20,000, further such as from 2000 to 10,000.

[0022] However, this weight-average molecular mass can represent up to 500 000 and even up to 1 000 000. The

structuring polymer according to formula (I) is non soluble in water or in aqueous phase. In another embodiment, the structuring polymer has no ionic group.

[0023] In one embodiment, due to the presence of at least one chain, the polyamide polymers according to formula (I) may be readily soluble in oils (*i.e.*, water-immiscible liquid compounds) and thus may give macroscopically homogeneous compositions even with a high content (at least 25%) of the polyamide polymers, unlike certain polymers of the prior art that do not contain such alkyl or alkenyl chains at the end of the polyamide skeleton. As defined herein, a composition is soluble if it has a solubility of greater than 0.01 g per 100 ml of solution at 25°C.

[0024] The structuring polymer is chosen from polyamide polymers described in U.S. Patent No. 5,783,657 which are polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units ranging from 1 to 10;
- R¹, which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms. In one embodiment, the alkyl group comprises from 4 to 24 carbon atoms and the alkenyl group comprises from 4 to 24 carbon atoms;
- R², which are identical or different, are each chosen from C₄ to C₄₂ hydrocarbon-based groups with the proviso that at least 50% of all R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;
- R³, which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R³ comprises at least 2 carbon atoms; and
- R⁴, which are identical or different, are each chosen from hydrogen atoms, C₁ to C₁₀ alkyl groups and a direct bond to at least one group chosen from R³ and another R⁴ such that when the at least one group is chosen from another R⁴, the nitrogen atom to which both R³ and R⁴ are bonded forms part of a heterocyclic structure defined in part by R⁴-N-R³, with the proviso that at least 50% of all R⁴ are chosen from hydrogen atoms.

[0025] In the polymer of formula (I), the terminal fatty chains that are optionally functionalized for the purposes of the invention are terminal chains linked to the last hetero atom, in this case nitrogen, of the polyamide skeleton.

[0026] In one embodiment, the ester groups of formula (I), which form part of the terminal and/or pendant fatty chains for the purposes of the invention, are present in an amount ranging from 15% to 40% of the total number of ester and amide groups (*i.e.*, heteroatom groups), such as from 20% to 35%.

[0027] In formula (I), in one embodiment, may be an integer ranging from 1 to 5, and for example an integer ranging from 3 to 5- In the present invention, R¹, which are identical or different, can, for example, each be chosen from C₁₂ to C₂₂ alkyl groups, such as from C₁₆ to C₂₂ alkyl groups.

[0028] In the present invention, R², which are identical or different, can, for example, each be chosen from C₁₀ to C₄₂ hydrocarbon-based, *e.g.*, alkylene groups. At least 50% of all R², for example at least 75% of all R², which are identical or different, can, for example, each be chosen from groups comprising from 30 to 42 carbon atoms. In the two aforementioned embodiments, the remaining R², which are identical or different, can, for example, each be chosen from C₄ to C₁₈ groups, such as C₄ to C₁₂ groups.

[0029] R³, which can be identical or different, can, for example, each be chosen from C₂ to C₃₆ hydrocarbon-based groups and polyoxyalkylene groups. In another example, R³, which can be identical or different, can each, for example, be chosen from C₂ to C₁₂ hydrocarbon-based groups. In another embodiment, R⁴, which can be identical or different, can each be chosen from hydrogen atoms.

[0030] As used herein, hydrocarbon-based groups may be chosen from linear, cyclic and branched, and saturated and unsaturated groups. The hydrocarbon-based groups can be chosen from aliphatic and aromatic groups. In one example, the hydrocarbon-based groups are chosen from aliphatic groups. The alkyl and alkylene groups may be chosen from linear, cyclic and branched, and saturated and unsaturated groups.

[0031] In general, the pendant and terminal fatty chains may be chosen from linear, cyclic and branched, and saturated and unsaturated groups. The pendant and terminal fatty chains can be chosen from aliphatic and aromatic groups. In

one example, the pendant and terminal fatty chains are chosen from aliphatic groups.

[0032] According to the invention, the structuring of the liquid fatty phase is obtained with the aid of at least one structuring polymer, such as the at least one polymer of formula (I). The at least one polyamide polymer of formula (I) may, for example, be in the form of a mixture of polymers, and this mixture may also comprise a compound of formula (I) wherein n is equal to zero, i.e., a diester.

[0033] Non-limiting examples of an at least one polyamide polymer which may be used in the composition according to the present invention include the commercial products sold by Arizona Chemical under the names Uniclear 80 and Uniclear 100. These are sold or made, respectively, in the form of an 80% (in terms of active material) gel in a mineral oil and a 100% (in terms of active material) gel. These polymers have a softening point ranging from 88°C to 94°C, and may be mixtures of copolymers derived from monomers of (i) C₃₆ diacids and (ii) ethylenediamine, and have a weight-average molecular mass of about 6000. Terminal ester groups result from esterification of the remaining acid end groups with at least one alcohol chosen from cetyl alcohol and stearyl alcohol. A mixture of cetyl and stearyl alcohols is sometimes called cetylstearyl alcohol.

[0034] The at least one structuring polymer of formula (I) in the compositions of the invention may have a softening point greater than 50°C, such as from 65°C to 190°C, and for example less than 150°C, and further such as from 70°C to 130°C, and even further such as from 80°C to 105°C. This softening point may be lower than that of structuring polymers used in the art which may facilitate the use of the at least one structuring polymer of the present invention and may limit the degradation of the liquid fatty phase. These polymers may be non waxy polymers.

[0035] The softening point can be measured by a well known method as "Differential Scanning Calorimetry" (i.e. DSC method) with a temperature rise of 5 to 10°C/min.

[0036] The at least one structuring polymer in the composition according to the invention corresponds to the polyamide polymers of formula (I). Due to fatty chain(s), these polymers may be readily soluble in oils and thus lead to compositions that are macroscopically homogeneous even with a high content (at least 25%) of at least one structuring polymer, unlike polymers not containing a fatty chain.

[0037] The at least one structuring polymer of formula (I) may be present in the composition in an amount ranging, for example, from 0.5% to 80% by weight relative to the total weight of the composition, such as for example 2% to 60%, and further, for example, from 5 to 40%. In a further embodiment the at least one structuring polymer may be present in the composition in an amount ranging, for example, from 5% to 25% by weight relative to the total weight of the composition.

[0038] In another embodiment of the invention, the present invention is drawn to a structured composition comprising at least one liquid fatty phase structured with at least one structuring polymer of formula (I), and containing less than 5% wax.

[0039] Further, an embodiment of the invention relates to a skin, lip, or keratinous fiber care, treatment, or make-up composition comprising a structured composition containing at least one liquid fatty phase structured with at least one structuring polymer of formula (I) and at least one gelling agent for gelling the liquid fatty phase, said composition containing less than 5% wax.

[0040] Additionally, an embodiment of the invention relates to a skin, lip, or keratinous fiber care or make-up composition comprising a structured composition containing at least one liquid fatty phase structured with at least one structuring polymer of formula (I), at least one gelling agent for gelling the liquid fatty phase, at least one coloring agent, said composition containing less than 5% wax.

[0041] Additionally, an embodiment of the invention relates to a care and/or treatment and/or make-up composition for keratin materials comprising a composition containing at least one liquid fatty phase which comprises (i) at least one structuring polymer of formula (I); and (ii) at least one gelling agent, wherein said at least one gelling agent is not stearammonium hectorite, and wherein said composition containing less than 5% wax.

[0042] Another embodiment of the invention relates to a mascara, an eyeliner, a foundation, a lipstick, a blusher, a make-up-removing product, a make-up product for the body, an eyeshadow, a face powder, a concealer product, a shampoo, a conditioner, an antisen product or a care product for the lips, skin, or hair comprising a composition comprising at least one liquid fatty phase in the mascara, eyeliner, foundation, lipstick, blusher, make-up-removing product, make-up product for the body, eyeshadow, face powder, concealer product, shampoo, conditioner, antisen product or care product for the skin, lips, or hair which comprises:

- (i) at least one structuring polymer of formula (I); and
- (ii) at least one gelling agent, of formula (I) said composition containing less than 5% of wax.

[0043] Another embodiment of the invention relates to a deodorant product or a care product for the skin or body comprising an anhydrous composition comprising at least one liquid fatty phase in the product which comprises:

- (i) at least one structuring polymer of formula (I); and

(ii) at least one gelling agent, said composition containing less than 5% wax.

[0044] Another embodiment of the invention relates to a lip composition comprising an anhydrous composition comprising at least one liquid fatty phase in the product which comprises:

- (i) at least one structuring polymer of formula (I); and
- (ii) at least one gelling agent, said composition containing less than 5% wax.

[0045] Another embodiment of the invention relates to a lipstick composition in stick form comprising at least one continuous liquid fatty phase, at least one gelling agent for the fatty phase and at least one non-waxy structuring polymer having a weight-average molecular mass of less than 100 000, the continuous liquid fatty phase, the at least one gelling agent for the fatty phase and the at least one non-waxy structuring polymer being present in the lipstick composition.

[0046] Another embodiment of the invention relates to a method for care, make-up or treatment of keratin materials comprising applying to the keratin materials an anhydrous composition comprising at least one liquid fatty phase which comprises:

- (i) at least one structuring polymer of formula (I); and
- (ii) at least one gelling agent wherein said at least one gelling agent is not stearylalkonium hectorite, said composition containing less than 5% wax.

[0047] Another embodiment of the invention relates to a method for care, make-up or treatment of keratinous fibers, lips, or skin comprising applying to the keratinous fibers, lips, or skin a composition comprising at least one liquid fatty phase which comprises:

- (i) at least one structuring polymer of formula (I);
a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and
- (ii) at least one gelling agent, said composition containing less than 5% wax.

[0048] Another embodiment of the invention relates to a method for providing an anhydrous composition having at least one property chosen from non-exudation, gloss, and comfortable deposit on keratin materials chosen from lips, skin, and keratinous fibers, comprising including in the composition at least one liquid fatty phase which comprises:

- (i) at least one structuring polymer of formula (I); and
- (ii) at least one gelling agent, said composition containing less than 5% wax.

[0049] Another embodiment of the invention relates to a method of making up or caring for skin, lips keratinous fibers comprising applying to the skin, lips, or keratinous fibers a structured composition containing at least one liquid fatty phase structured with at least one structuring polymer of formula (I) and at least one gelling agent for gelling the liquid fatty phase, said composition containing less than 5% wax.

[0050] Another embodiment of the invention relates to a composition comprising at least one liquid fatty phase which comprises:

- (i) at least one structuring polymer of formula (I); and
- (ii) at least one gelling agent, said composition containing less than 5% wax.

[0051] Depending on the intended application, such as a stick, hardness of the composition may also be considered. The hardness of a composition may, for example, be expressed in gramforce (gf). The composition of the present invention may, for example, have a hardness ranging from 20 gf to 2000 gf, such as from 20 gf to 900 gf, and further such as from 20 gf to 600 gf.

[0052] This hardness is measured in one of two ways. A first test for hardness is according to a method of penetrating a probe into the composition and in particular using a texture analyzer (for example TA-XT2 i. from Rheo) equipped with an ebonite cylinder of height 25 mm and diameter 8 mm. The particular using a texture analyzer (for example TA-XT2 i. from Rheo) equipped with an ebonite cylinder of height 25 mm and diameter 8 mm. The hardness measurement is carried out at 20°C at the center of 5 samples of the composition. The cylinder is introduced into each sample of composition at a pre-speed of 2 mm/s and then at a speed of 0.5 mm/s and finally at a post-speed of 2 mm/s, the total displacement being 1 mm. The recorded hardness value is that of the maximum peak observed. The measurement error is ± 50 gf.

[0053] The second test for hardness is the "cheese wire" method, which involves cutting an 8.1 mm or preferably 12.7 mm in diameter stick composition and measuring its hardness at 20°C using a DFGHS 2 tensile testing machine from Indelco-Chatillon Co. at a speed of 100 mm/minute. The hardness value from this method is expressed in grams as the shear force required to cut a stick under the above conditions. According to this method, the hardness of compositions according to the present invention which may be in stick form may, for example, range from 30 gf to 300 gf, such as from 30 gf to 250 gf, and further such as from 30 gf to 200 gf.

[0054] The hardness of the composition of the present invention may be such that the compositions are self-supporting and can easily disintegrate to form a satisfactory deposit on a keratinous material. In addition, this hardness may impart good impact strength to the inventive compositions which may be molded or cast, for example, in stick or dish form.

[0055] The skilled artisan may choose to evaluate a composition using at least one of the tests for hardness outlined above based on the application envisaged and the hardness desired. If one obtains an acceptable hardness value, in view of the intended application, from at least one of these hardness tests, the composition falls within the scope of the invention.

[0056] As is evident, the hardness of the composition according to the invention may, for example, be such that the composition is advantageously self-supporting and can disintegrate easily to form a satisfactory deposit on the skin and/or the lips and/or superficial body growths, such as keratinous fibres. In addition, with this hardness, the composition of the invention may have good impact strength.

[0057] According to the invention, the composition in stick form may have the behavior of a deformable, flexible elastic solid, giving noteworthy elastic softness on application. The compositions in stick form of the prior art do not have these properties of elasticity and flexibility.

Amphiphilic Compound

[0058] The polymer can be combined with at least one amphiphilic compound that is liquid and non-volatile at room temperature, having a hydrophilic/lipophilic balance (HLB) of less than 12, such as from 1 to 8 and further such as from 1 to 5. According to the invention, one or more amphiphilic compounds may be used. The aim of these amphiphilic compounds is to reinforce the structuring properties of the polymer containing a hetero atom, to facilitate the use of the polymer and to improve the ability of the stick or tube to be deposited. However, it is possible to obtain a stick with good mechanical and/or thermal properties without including at least one amphiphilic compound.

[0059] The at least one amphiphilic compound which can be used in the composition of the invention may, for example, comprise a lipophilic part linked to a polar part, the lipophilic part comprising a carbon-based chain containing at least 8 carbon atoms, for example from 18 to 32 carbon atoms or from 18 to 28 carbon atoms. The polar part of the at least one amphiphilic compound may, in one embodiment, be the residue of a compound chosen from alcohols and polyols containing from 1 to 12 hydroxyl groups, and polyoxyalkylenes comprising at least 2 oxyalkylene units and containing from 0 to 20 oxypropylene units and/or from 0 to 20 oxyethylene units. For example, the at least one amphiphilic compound may be an ester chosen from the hydroxystearates, oleates and isostearates of glycerol, of sorbitan and of methylglucose, and from branched C₁₂ to C₂₆ fatty alcohols such as octyldodecanol. Among these esters, monoesters and mixtures of mono- and diesters can also be used.

[0060] The respective contents of lipophilic gelling agent and of polymer of formula (I) containing a hetero atom and optionally that of the amphiphilic compound are chosen according to the desired hardness of the composition and as a function of the specific application envisaged.

[0061] The respective amounts of polymer of formula (I), gelling agent and optionally of amphiphilic compound should be such that they produce a stick which can be worn down. In practice, the amount of polymer represents, for example, from 0.5% to 80% of the total weight of the composition, such as from 2 to 60% and further such as from 5% to 40%. The amount of amphiphilic compound in practice represents, for example, from 0.1% to 35% of the total weight of the composition, for example from 1% to 20% and as a further example, from 1% to 15%, if it is present.

[0062] The at least one gelling agent and/or the at least one structuring polymer of formula (I) have an affinity with the fatty phase and in particular with a chemical portion of one of the oils forming the liquid fatty phase of the composition so that physical links with the oils, such as hydrogen bonds, are formed.

[0063] In one embodiment, the gelling agent is not chosen from any of silica, methyl 12-hydroxystearate, 12-hydroxy stearic acid, and stearylkonium hectorite.

Liquid Fatty Phase

[0064] The at least one liquid, in one embodiment, may comprise at least one oil. In one embodiment, at least one oil has an affinity with the structuring polymer of formula (I) and/or with the gelling agent. The at least one oil, for example, may be chosen from polar oils and apolar oils including hydrocarbon-based liquid oils and oily liquids at room temperature. In one embodiment, the composition of the invention comprises at least one structuring polymer of formula (I) and at

least one polar oil. The polar oils of the invention, for example, may be added to the apolar oils, the apolar oils acting in particular as co-solvent for the polar oils.

[0065] According to the invention, the structuring of the at least one liquid fatty phase may be obtained with the aid of at least one polymer of formula (I). In general, the polymers of formula (I) may be in the form of mixtures of polymers, these mixtures also possibly containing a synthetic product corresponding to a compound of formula (I) in which n is 0, *i.e.*, a diester.

[0066] The liquid fatty phase of the composition may contain more than 30%, for example, more than 40%, of liquid oil(s) containing a group similar to that of the units containing a hetero atom of the structuring polymer of formula (I), and for example from 50% to 100%. In one embodiment, the liquid fatty phase structured with a polyamide-type skeleton of formula (I) contains a high quantity, *i.e.*, greater than 30%, for example greater than 40% relative to the total weight of the liquid fatty phase, or from 50% to 100%, of at least one apolar, such as hydrocarbon-based, oil. For the purposes of the invention, the expression "hydrocarbon-based oil" means an oil essentially comprising carbon and hydrogen atoms, optionally with at least one group chosen from hydroxyl, ester, carboxyl and ether groups. With such a fatty phase, the at least one gelling agent may, for example, contain an amine, amide or urethane group.

[0067] For example, the at least one polar oil useful in the invention may be chosen from:

- hydrocarbon-based plant oils with a high content of triglycerides comprising fatty acid esters of glycerol in which the fatty acids may have varied chain lengths from C_4 to C_{24} , these chains possibly being chosen from linear and branched, and saturated and unsaturated chains; these oils can be chosen from, for example, wheat germ oil, corn oil, sunflower oil, karite butter, castor oil, sweet almond oil, macadamia oil, apricot oil, soybean oil, cotton oil, alfalfa oil, poppy oil, pumpkin oil, sesame oil, marrow oil, rapeseed oil, avocado oil, hazelnut oil, grape seed oil, blackcurrant seed oil, evening primrose oil, millet oil, barley oil, quinoa oil, olive oil, rye oil, safflower oil, candlenut oil, passion flower oil and musk rose oil; or alternatively caprylic/capric acid triglycerides such as those sold by Stearineries Dubois or those sold under the names Miglyol 810, 812 and 818 by Dynamit Nobel;
- synthetic oils or esters of formula R_5COOR_6 in which R_5 is chosen from linear and branched fatty acid residues containing from 1 to 40 carbon atoms and R_6 is chosen from, for example, a hydrocarbon-based chain containing from 1 to 40 carbon atoms, on condition that $R_5 + R_6 \geq 10$, such as, for example, purcellin oil (cetostearyl octanoate), isononyl isononanoate, C_{12} - C_{15} alkyl benzoates, isopropyl myristate, 2-ethylhexyl palmitate, isostearyl isostearate and alkyl or polyalkyl octanoates, decanoates or ricinoleates; hydroxylated esters such as isostearyl lactate and diisostearyl malate; and pentaerythritol esters;
- synthetic ethers containing from 10 to 40 carbon atoms;
- C_8 to C_{26} fatty alcohols such as oleyl alcohol; and
- C_8 to C_{26} fatty acids such as oleic acid, linolenic acid or linoleic acid.

[0068] The at least one apolar oil according to the invention is chosen from, for example, silicone oils chosen from volatile and non-volatile, linear and cyclic polydimethylsiloxanes (PDMSs) that are liquid at room temperature; polydimethylsiloxanes comprising alkyl or alkoxy groups which are pendant and/or at the end of the silicone chain, the groups each containing from 2 to 24 carbon atoms; phenylsilicones such as phenyl trimethicones, phenyl dimethicones, phenyl trimethylsiloxy diphenylsiloxanes, diphenyl dimethicones, diphenyl methylphenyl trisiloxanes and 2-phenylethyl trimethylsiloxy silicates; hydrocarbons chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin, such as volatile liquid paraffins (such as isoparaffins and isododecane) or non-volatile liquid paraffins and derivatives thereof, liquid petrolatum, liquid lanolin, polydecenes, hydrogenated polyisobutene such as Parleam®, and squalane; and mixtures thereof. The structured oils, for example those structured with polyamides such as those of formula (I) or the polyurethanes or polyureas or polyurea-urethanes, may be, in one embodiment, apolar oils, such as an oil or a mixture of hydrocarbon oils chosen from those of mineral and synthetic origin, chosen from hydrocarbons such as alkanes such as Parleam® oil, isoparaffins including isododecane, and squalane, and mixtures thereof.

[0069] The structured oils, for example those structured with polyamides such as those of formula (I) or the polyurethanes or polyureas or polyurea-urethanes, may be, in one embodiment, apolar oils, such as an oil or a mixture of hydrocarbon oils chosen from those of mineral and synthetic origin, chosen from hydrocarbons such as alkanes such as hydrogenated polybutene, *e.g.*, Parleam® oil from Nippon Oil Fats, isoparaffins including isododecane, and squalane, and mixtures thereof. These oils may, in one embodiment, be combined with at least one phenylsilicone oil.

[0070] The liquid fatty phase, in one embodiment, contains at least one non-volatile oil chosen from, for example, hydrocarbon-based oils of mineral, plant and synthetic origin, synthetic esters or ethers, silicone oils and mixtures thereof.

[0071] In practice, the total liquid fatty phase can be, for example, present in an amount ranging from 1 % to 99% by weight relative to the total weight of the composition, for example from 5 % to 99 %, 5% to 95.5 %, from 10 % to 80 % or from 20 % to 75 %.

[0072] For the purposes of the invention, the expression "volatile solvent or oil" means any non-aqueous medium capable of evaporating on contact with the skin or the lips in less than one hour at room temperature and atmospheric

pressure. The volatile solvent(s) of the invention is(are) organic solvents, such as volatile cosmetic oils that are liquid at room temperature, having a non-zero vapor pressure, at room temperature and atmospheric pressure, ranging in particular from 10^{-2} to 300 mmHg (1.33 to 40 000 Pa) and, for example, greater than 0.03 mmHg (4Pa) and further example greater than 0.3 mmHg (40 Pa). The expression "non-volatile oil" means an oil which remains on the skin or the lips at room temperature and atmospheric pressure for at least several hours, such as those having a vapor pressure of less than 10^{-2} mmHg (1.33 Pa).

[0073] According to the invention, these volatile solvents may facilitate the staying power or long wearing properties of the composition on the skin, the lips or superficial body growths such as nails and keratinous fibers. The solvents can be chosen from hydrocarbon-based solvents, silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of a silicone chain, and a mixture of these solvents.

[0074] The volatile oil(s), in one embodiment, can be present in an amount ranging from 0% to 95.5% relative to the total weight of the composition, such as from 2% to 75% or, for example, from 10% to 45%. This amount will be adapted by a person skilled in the art according to the desired staying power or long wearing properties.

[0075] The at least one liquid fatty phase of the composition of the invention may further comprises a dispersion of lipid vesicles. The composition of the invention may also, for example, be in the form of a fluid anhydrous gel, a rigid anhydrous gel, a fluid simple emulsion, a fluid multiple emulsion, a rigid simple emulsion or a rigid multiple emulsion. The simple emulsion or multiple emulsion may comprise a continuous phase chosen from an aqueous phase optionally containing dispersed lipid vesicles, or a fatty phase optionally containing dispersed lipid vesicles. In one embodiment, the composition has a continuous oily phase or fatty phase and is more specifically an anhydrous composition in, for example, a stick or dish form. An anhydrous composition is one that has less than 10% water by weight, such as, for example, less than 5% by weight.

Gelling Agent

[0076] The composition of the invention also contains at least one lipophilic agent for gelling a liquid fatty phase. This at least one gelling agent is chosen from liposoluble and lipodispersible rheological agents, such as agents that are soluble or dispersible in the fatty phase that is liquid at room temperature and atmospheric pressure. The at least one gelling agent may be chosen from gelling agents in polymeric form and gelling agents in mineral form. In one embodiment, the at least one gelling agent may be in mineral form with particle sizes that cause little or no light scattering. Thus, it may be possible to obtain a translucent or even transparent composition.

[0077] In one embodiment, the at least one gelling agent is not soluble in an aqueous phase or in water.

[0078] Fatty-phase gelling agents or rheological agents which can be used in the invention may be chosen from lipodispersible mineral particles such as optionally modified clays and optionally modified silica, for example which have been hydrophobic-treated, as well as polymeric gelling agents such as partially or totally crosslinked elastomeric polyorganosiloxanes of three-dimensional structure; galactomannans comprising from 1 to 6 hydroxyl groups, for example 2 to 4 hydroxyl groups, per saccharide, substituted with a saturated or unsaturated alkyl chain; polymers or copolymers resulting from the polymerization or copolymerization of an ethylenic monomer, comprising one or more ethylenic, preferably conjugated bonds (or dienes); silicone gums; ethylcellulose, such as the products sold under the name Ethocel by Dow Chemical; and mixtures thereof.

[0079] As modified clays which can be used, mention may be made of hectorites modified with an ammonium chloride of a C_{10} to C_{22} fatty acid, such as hectorite modified with distearyldimethylammonium chloride, also known as quaternium-18 bentonite, such as the products sold or made under the names Bentone 34 by the company Rheox; Claytone XL, Claytone 34 and Claytone 40 sold or made by the company Southern Clay, the modified clays known under the name quaternium-18 benzalkonium bentonites and sold or made under the names Claytone HT, Claytone GR and Claytone PS by the company Southern Clay, the clays modified with stearyldimethylbenzoylammonium chloride, known as steralkonium bentonites, such as the products sold or made under the names Claytone APA and Claytone AF by the company Southern Clay, and Baragel 24, sold or made by the company Rheox.

[0080] As polyorganosiloxanes which can be used in the invention, mention may be made of the crosslinked elastomeric polyorganosiloxanes described in application EP-A-0,295,886.

[0081] According to that application, they are obtained by addition reaction and crosslinking, in the presence of a platinum-type catalyst, of at least:

- (a) a polyorganosiloxane having at least two C_2 to C_6 lower alkenyl groups per molecule; and
- (b) a polyorganosiloxane having at least two hydrogen atoms linked to a silicon atom per molecule. It is also possible to use the polyorganosiloxanes described in US patent 5 266 321, the disclosure of which is incorporated by reference herein. According to that patent, they are chosen in particular from:

- i) polyorganosiloxanes comprising R_2SiO and $RSiO_{1.5}$ units and optionally $R_3SiO_{0.5}$ and/or SiO_2 units in which

the radicals R, independently of each other, are chosen from a hydrogen, an alkyl such as methyl, ethyl or propyl, an aryl such as phenyl or tolyl, an unsaturated aliphatic group such as vinyl, the weight ratio of the units R_2SiO to the units $RSiO_{1.5}$ ranging from 1/1 to 30/1;

- ii) polyorganosiloxanes which are insoluble and swellable in silicone oil, obtained by addition of an polyorgano-hydrogenosiloxane (1) and of a polyorganosiloxane (2) having unsaturated aliphatic groups such that the amount of hydrogen or of unsaturated aliphatic groups in (1) and (2) respectively ranges from 1 to 20 mol% when the polyorganosiloxane is noncyclic and from 1 to 50 mol% when the polyorganosiloxane is cyclic. Optionally, these polyorganosiloxanes can comprise from 1 to 40 oxyalkylene groups, such as oxypropylene and/or oxyethylene groups.

[0082] As examples of polyorganosiloxanes which can be used according to the invention, mention may be made of those sold or made under the names KSG6 from Shin-Etsu, Trefil E-505C or Trefil E-506C from Dow-Corning, Gransil from Grant Industries (SR-CYC, SR DMF10, SR-DC556) or those marketed in the form of preconstituted gels (KSG15, KSG17, KSG16, KSG18, KSG21 from Shin-Etsu, Gransil SR 5CYC gel, Gransil SR DMF 10 gel, Gransil SR DC556 gel, SF 1204 and JK 113 from General Electric. A mixture of these commercial products may also be used.

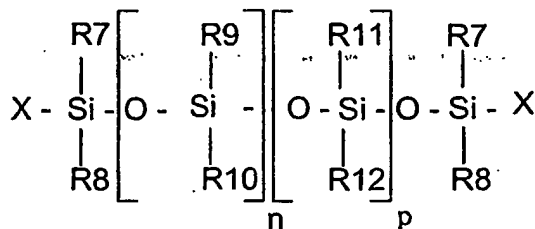
[0083] As alkyl galactomannans which can be used in the invention, mention may be made of guar gum or carob gum alkylated with C_1 to C_6 , for example, C_1 to C_3 alkyl chains, such as ethyl or propyl guar having a degree of substitution of 2 to 3, for example, of about 2.5 to 2.8, as described in document EP-A-708 114 and sold or made by the company Aqualon under the name N-Hance-AG 200® or N-Hance AG 50®.

[0084] As polymers or copolymers resulting from the polymerization or copolymerization of an ethylenic monomer, use may be made of vinyl, acrylic or methacrylic copolymers which may be block copolymers, such as diblock or triblock copolymers, or even multiblock or starburst or radial copolymers. The at least one ethylenic gelling agent may comprise, for example, a styrene block (S), an alkylstyrene block (AS), an ethylene/butylene block (EB), an ethylene/propylene block (EP), a butadiene block (B), an isoprene block (I), an acrylate block (A), a methacrylate block (MA) or a combination of these blocks.

[0085] In one embodiment, a copolymer comprising at least one styrene block is used as gelling agent or ethylenic rheological agent. A triblock copolymer and in particular those of the polystyrene/polyisoprene or polystyrene/polybutadiene type, such as those sold or made under the name "Luvitol HSB" by BASF and those of the polystyrene/copoly (ethylene-propylene) type or alternatively of the polystyrene/copoly(ethylene/butylene) type, such as those sold or made under the brand name "Kraton" by Shell Chemical Co. or Gelled Permethyl 99A by Penreco, may be used. Styrene-methacrylate copolymers can also be used.

[0086] As ethylenic rheological agent which can be used in the composition of the invention, mention may be made, for example, of Kraton (G1650 (SEBS), Kraton G1651 (SEBS), Kraton G1652 (SEBS), Kraton G1657X (SEBS), Kraton G1701X (SEP), Kraton G1702X (SEP), Kraton G1726X (SEB), Kraton G1750X (EP) multiarm, Kraton G1765X (EP) multiarm, Kraton D-1101 (SBS), Kraton D-1102 (SBS), Kraton D-1107 (SIS), Gelled Permethyl 99A - 750, Gelled Permethyl 99A- 753-58 (mixture of starburst block polymer and triblock polymer), Gelled Permethyl 99A- 753-59 (mixture of starburst block polymer and triblock polymer), Versagel 5970 and Versagel 5960 from Penreco (mixture of starburst polymer and triblock polymer in isododecane), and OS 129880, OS 129881 and OS 84383 from Lubrizol (styrene-methacrylate copolymer).

[0087] As other rheological agents which can be used in the invention, mention may be made of silicone gums. The silicone gum can correspond to the formula:



in which:

R_7 , R_8 , R_{11} and R_{12} are identical or different, and each is chosen from alkyl radicals comprising from 1 to 6 carbon atoms,

R_9 and R_{10} are identical or different, and each is chosen from alkyl radicals comprising from 1 to 6 carbon atoms

and aryl radicals,

X is chosen from alkyl radicals comprising from 1 to 6 carbon atoms, a hydroxyl radical and a vinyl radical,

n and p are chosen so as to give the silicone gum a viscosity of greater than 100 000 mPa.s, such as greater than 500 000 mPa.s.

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In general, n and p can each take values ranging from 0 to 5 000, such as from 0 to 3 000.

[0088] Among the silicone gums which can be used according to the invention, mention may be made of those for which:

- 10 -- the substituents R_7 to R_{12} and X represent a methyl group, $p = 0$ and $n = 2\,700$, such as the product sold or made under the name SE30 by the company General Electric,
- the substituents R_7 to R_{12} and X represent a methyl group, $p = 0$ and $n = 2\,300$, such as the product sold or made under the name AK 500 000 by the company Wacker,
- 15 -- the substituents R_7 to R_{12} represent a methyl group, the substituent X represents a hydroxyl group, $p = 0$ and $n = 2\,700$, as a 13% solution in cyclopentasiloxane, such as the product sold or made under the name Q2-1401 by the company Dow Corning,
- the substituents R_7 to R_{12} represent a methyl group, the substituent X represents a hydroxyl group, $p = 0$ and $n = 2\,700$, as a 13% solution in polydimethylsiloxane, such as the product sold or made under the name Q2-1403 by the company Dow Corning, and
- 20 -- the substituents R_7 , R_8 , R_{11} , R_{12} and X represent a methyl group and the substituents R_9 and R_{10} represent an aryl group, such that the molecular weight of the gum is about 600 000, for instance the product sold or made under the name 761 by the company Rhône-Poulenc (Rhodia Chimie).

[0089] As other gelling agents or rheological agents which can be used in the invention; mention may be made of silica, such as fumed silica. The fumed silica may have a particle size which may be nanometric to micrometric, for example ranging from about 5 nm to 200 nm.

[0090] The fumed silicas may be obtained by high-temperature hydrolysis of a volatile silicon compound in a hydrogen-oxygen flame, producing a finely divided silica. This process makes it possible to obtain hydrophilic silicas which have a large number of silanol groups at their surface. Such hydrophilic silicas are sold or made, for example, under the names "Aerosil 130®", "Aerosil 200®", "Aerosil 255®", "Aerosil 300®" and "Aerosil 380®" by the company Degussa, and "CAB-O-SIL HS-5®", "CAB-O-SIL EH-5®", "CAB-O-SIL LM-130®", "CAB-O-SIL MS-55®" and "CAB-O-SIL M-5®" by the company Cabot.

[0091] It is thus possible to chemically modify the surface of the hydrophilic silica by chemical reaction, producing a reduction in the number of silanol groups. The silanol groups can be replaced, for example, with hydrophobic groups: this then gives a hydrophobic silica. The hydrophobic groups may be :

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- trimethylsiloxy groups, which are obtained in particular by treating fumed silica in the presence of hexamethyldisilazane. Silicas thus treated are known as "silica silylate" according to the CTFA (6th edition, 1995). They are sold or made, for example, under the references "Aerosil R812®" by the company Degussa and "CAB-O-SIL TS-530®" by the company Cabot;
- 40 - dimethylsiloxy or polydimethylsiloxane groups, which are obtained in particular by treating fumed silica in the presence of polydimethylsiloxane or dimethyldichlorosilane. Silicas thus treated are known as "silica dimethyl silylate" according to the CTFA (6th edition, 1995). They are sold or made, for example, under the references "Aerosil R972®" and "Aerosil R974®" by the company Degussa, and "CAB-O-SIL TS-610®" and "CAB-O-SIL TS-720®" by the company Cabot;
- 45 - groups derived from reacting fumed silica with silane alkoxides or siloxanes. These treated silicas are, for example, the products sold or made under the reference "Aerosil R805®" by the company Degussa.

[0092] According to the invention, a hydrophobic silica, such as a fumed silica, may be used as lipophilic gelling agent or rheological agent. The use of fumed silica makes it possible to obtain a translucent or even transparent composition, in particular in the form of a stick which does not exude, in the absence of opacifying particles such as waxes, fillers and pigments (including nactes).

[0093] The at least one liposoluble rheological agent can allow the exudation of the composition to be limited and can allow its stability to be increased, while at the same time conserving the composition's glossy appearance, which is not possible with waxes such as those used conventionally in cosmetics and dermatology. These gelling agents can be used, for example, at concentrations of from 0.05% to 35% relative to the total weight of the composition, for example from 0.5% to 20% or from 1 % to 10%.

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Additional Additives

[0094] The composition of the invention can also comprise any additive usually used in the field under consideration, chosen in particular from antioxidants, essential oils, preserving agents, fragrances, waxes, fillers, products that are pasty or viscous at room temperature, neutralizing agents, liposoluble polymers and polymers that are dispersible in the medium, cosmetic and dermatological active agents such as, for example, emollients, moisturizers, vitamins, essential fatty acids, sunscreens, dispersants such as poly(2-hydroxystearic acid), and mixtures thereof. These additives may be present in the composition in a proportion of from 0% to 20% (such as from 0.01% to 20%) relative to the total weight of the composition and further such as from 0.01% to 10% (if present).

[0095] The composition of the invention can also contain, as an additive, an aqueous phase containing water that is optionally thickened or gelled with an aqueous-phase thickener or gelling agent and/or containing ingredients soluble in water. The water can represent from 0.01 to 50 %, for example from 0.5 to 30 % relative to the total weight of the composition.

[0096] Needless to say, a person skilled in the art will take care to select the optional additional additives and/or the amount thereof such that the advantageous properties of the composition according to the invention are not, or are not substantially, adversely affected by the envisaged addition.

[0097] The composition according to the invention can be in the form of a tinted or non tinted dermatological composition or a care composition for keratin materials such as the skin, the lips and/or superficial body growths, in the form of an antiperspirant composition or body hygiene composition in particular in the form of a deodorant product or make-up-removing product in stick form. It can be used in particular as a care base for the skin, superficial body growths or the lips (lip balms, for protecting the lips against cold and/or sunlight and/or the wind, or care cream for the skin, the nails or the hair). As defined herein, a deodorant product is personal hygiene product and does not relate to care, make-up or treatment of keratin materials, including keratinous fibers.

[0098] The composition of the invention may also be in the form of a coloured make-up product for the skin, in particular a foundation, optionally having care or treating properties, a blusher, a face powder, an eye shadow, a concealer product, an eyeliner, a make-up product for the body; a make-up product for the lips such as a lipstick, optionally having care or treating properties; a make-up product for superficial body growths such as the nails or the eyelashes, in particular in the form of a mascara cake, or for the eyebrows and the hair, in particular in the form of a pencil.

[0099] Needless to say, the composition of the invention should be cosmetically or dermatologically acceptable, i.e. it should contain a non-toxic physiologically acceptable medium and should be able to be applied to the skin, superficial body growths or the lips of human beings. For the purposes of the invention, the expression "cosmetically acceptable" means a composition of pleasant appearance, odour, feel and taste.

[0100] The composition advantageously contains at least one cosmetic active agent and/or at least one dermatological active agent, i.e., an agent having a beneficial effect on the skin, lips or body growths and/or at least one coloring agent.

Coloring agents

[0101] The coloring agent according to the invention may be chosen from the lipophilic dyes, hydrophilic dyes, pigments and nacreous pigments (i.e., nacres) usually used in cosmetic or dermatological compositions, and mixtures thereof. This coloring agent is generally present in a proportion of from 0.01% to 50% relative to the total weight of the composition, such as from 0.5% to 40% and further such as from 5% to 30%, if it is present. In the case of a composition in the form of a free or compacted powder, the amount of coloring agent in the form of solid particles that are insoluble in the medium (nacres and/or pigments) may be up to 90% relative to the total weight of the composition.

[0102] The liposoluble dyes are, for example, Sudan Red, D&C Red 17, D&C Green 6, β -carotene, soybean oil, Sudan Brown, D&C Yellow 11, D&C Violet 2, D&C Orange 5, quinoline yellow or annatto. They can represent from 0.1 % to 20% of the weight of the composition, for example, from 0.1 % to 6% (if present). The water-soluble dyes are, for example, beetroot juice or methylene blue, and can represent up to 6% of the total weight of the composition.

[0103] The pigments may be white or coloured, mineral and/or organic, and coated or uncoated. Among the mineral pigments which may be mentioned are titanium dioxide, optionally surface-treated, zirconium oxide, zinc oxide or cerium oxide, as well as iron oxide, chromium oxide, manganese violet, ultramarine blue, chromium hydrate and ferric blue. Among the organic pigments which may be mentioned are carbon black, pigments of D & C type, and lakes based on cochineal carmine or on barium, strontium, calcium or aluminium. The pigments can represent from 0.1 % to 50%, such as from 0.5% to 40% and further such as from 2% to 30% relative to the total weight of the composition, if they are present.

[0104] The nacreous pigments may be chosen from white nacreous pigments such as mica coated with titanium or with bismuth oxychloride, coloured nacreous pigments such as titanium mica with iron oxides, titanium mica with, in particular, ferric blue or chromium oxide, titanium mica with an organic pigment of the type mentioned above, as well as nacreous pigments based on bismuth oxychloride. They can represent, for example, from 0.1% to 20% relative to the total weight of the composition, and further such as from 0.1% to 15%, if they are present.

[0105] In one embodiment, the coloring agent is a pigment (nacreous or not).

Waxes

[0106] The composition can optionally contain one or more waxes to improve the structuring in stick form, although this rigid form can be obtained in the absence of wax. For the purposes of the present invention, a wax is a lipophilic fatty compound that is solid at room temperature (25°C) and atmospheric pressure (760 mmHg, i.e. 101 KPa), which undergoes a reversible solid/liquid change of state, having a melting point of greater than 40°C and further such as greater than 55°C and which may be up to 200°C, and having an anisotropic crystal organization in the solid state. The size of the crystals is such that the crystals diffract and/or scatter light, giving the composition a cloudy, more or less opaque appearance. By bringing the wax to its melting point, it is possible to make it miscible with oils and to form a microscopically homogeneous mixture, but on returning the temperature of the mixture to room temperature, recrystallization of the wax in the oils of the mixture is obtained. It is this recrystallization in the mixture which is responsible for the reduction in the gloss of the mixture. Thus, the composition advantageously contains little or no wax, and in particular less than 5% wax.

[0107] For the purposes of the invention, the waxes are those generally used in cosmetics and dermatology; they are, for example, of natural origin, for instance beeswax, carnauba wax, candelilla wax, ouricury wax, Japan wax, cork fibre wax, sugar cane wax, paraffin wax, lignite wax, microcrystalline-waxes, lanolin wax, montan wax, ozokerites and hydrogenated oils such as hydrogenated jojoba oil as well as waxes of synthetic origin, for instance polyethylene waxes derived from the polymerization of ethylene, waxes obtained by Fischer-Tropsch synthesis, fatty acid esters and glycerides that are solid at 40°C, for example, at above 55°C, silicone waxes such as alkyl- and alkoxy-poly(di)methylsiloxanes and/or poly(di)methyl-siloxane esters that are solid at 40°C, for example, at above 55°C.

[0108] According to the invention, the melting point values correspond to the melting peak measured by the "Differential Scanning Calorimetry" method with a temperature rise of 5 or 10°C/min.

Liposoluble or Dispersible Polymers

[0109] The composition of the invention also can contain at least one polymer that is liposoluble or dispersible in the medium, other than the structuring polymer and the at least one rheological agent, and may have film-forming properties and may have, for example, an average molecular weight of from 500 to 1 000 000, such as from 1 000 to 500 000, and for example, further such as from 5 000 to 100 000, and even further such as from 5 000 to 20 000. This at least one liposoluble polymer may contribute towards increasing the viscosity and/or improving the staying power of the film. The at least one liposoluble polymer can have a softening point of not more than 30°C.

[0110] As examples of liposoluble polymers which can be used in the invention, mention may be made of: polyalkylenes, in particular polybutene, poly(meth)acrylates, alkylcelluloses with a linear or branched, saturated or unsaturated C₁ to C₈ alkyl radical, such as ethylcellulose and propylcellulose, silicone polymers that are compatible with the fatty phase, as well as vinylpyrrolidone (VP) copolymers, and mixtures thereof.

[0111] Vinylpyrrolidone copolymers, copolymers of a C₂ to C₃₀, such as C₃ to C₂₂ alkene, and combinations thereof, can be used. As examples of VP copolymers which can be used in the invention, mention may be made of VP/vinyl acetate, VP/ethyl methacrylate, butylated polyvinylpyrrolidone (PVP), VP/ethyl methacrylate/methacrylic acid, VP/eicosene, VP/hexadecene, VP/triacontene, VP/styrene or VP/acrylic acid/lauryl methacrylate copolymer.

[0112] Not only for the staying power properties but also for the feel and consistency properties of the film, the PVP/hexadecene copolymer having an average molecular weight of from 7 000 to 7 500 or alternatively the PVP/eicosene copolymer having an average molecular weight of from 8 000 to 9 000 can be used.

[0113] The liposoluble or dispersible polymers in the composition of the invention can be also used in an amount of from 0.01% to 20% (as active material) relative to the total weight of the composition, such as, for example, from 1% to 10%, if they are present.

Pasty fatty compound

[0114] The composition according to the invention also can contain at least one fatty compound that is pasty at room temperature. For the purposes of the invention, the expression "pasty fatty substances" means fatty substances with a melting point ranging from 20°C to 55°C, such as from 25°C to 45°C, or from 25°C to 40°C, and/or a viscosity at 40°C ranging from 0.1 to 40 Pa.s (1 400 poises), such as from 0.5 to 25 Pa.s, measured using a Contraves TV or Rhéomat 80 viscometer, equipped with a spindle rotating at 240 min⁻¹ for supplying with 60 Hz or at 200 min⁻¹ for supplying with 50Hz. A person skilled in the art can select the spindle for measuring the viscosity from the spindles MS-r3 and MS-r4, on the basis of his general knowledge, so as to be able to carry out the measurement of the pasty compound tested.

[0115] According to the invention, at least one pasty fatty substance is used. The at least one pasty fatty substance

can be chosen from hydrocarbon-based compounds, optionally of polymeric type; they can also be chosen from silicone compounds and/or fluoro compounds; they may also be in the form of a mixture of hydrocarbon-based compounds and/or silicone compounds and/or fluoro compounds. In the case of a mixture of different pasty fatty substances, the hydrocarbon-based pasty compounds (mainly containing hydrogen and carbon atoms and optionally ester groups) can be used in major proportion.

[0116] Among the pasty compounds which may be used in the composition according to the invention, mention may be made of lanolins and lanolin derivatives such as acetylated lanolins or oxypropylenated lanolins or isopropyl lanolate, having a viscosity of from 18 to 21 Pa.s, such as from 19 to 20.5 Pa.s, and/or a melting point of from 30°C to 55°C such as from 30°C to 40°C, and mixtures thereof. It is also possible to use esters of fatty acids or of fatty alcohols, for example, those containing from 20 to 65 carbon atoms (melting point of about from 20°C to 35°C and/or viscosity at 40°C ranging from 0.1 to 40 Pa.s), such as triisostearyl or cetyl citrate; arachidyl propionate; polyvinyl laurate; cholesterol esters, such as triglycerides of plant origin, such as hydrogenated plant oils, viscous polyesters such as poly(12-hydroxystearic acid), and mixtures thereof. Triglycerides of plant origin which may be used are hydrogenated castor oil derivatives, such as "Thixinr" from Rhéox.

[0117] Mention may also be made of pasty silicone fatty substances such as polydimethylsiloxanes (PDMSs) containing pendent chains of the alkyl or alkoxy type containing from 8 to 24 carbon atoms, and having a melting point of 20-55°C and for example from 20°C to 40°C, such as stearyldimethicones, such as, for example, those sold by the company Dow Corning under the trade names DC2503 and DC25514, and mixtures thereof.

[0118] The pasty fatty substance(s) may be present in a proportion of from 0.1 % to 60% by weight, relative to the total weight of the composition, such as in a proportion of from 1% to 45% by weight, and further such as from 2 to 30% by weight, in the composition, if they are present.

[0119] The composition according to the invention may be manufactured by the known processes, that are generally used in cosmetics or dermatology. It may be manufactured by the process which comprises heating the polymer at least to its softening point, adding the gelling agent(s), the amphiphilic compound(s), the coloring agent(s) and the additive(s) thereto and then mixing everything together until a clear, transparent solution is obtained. After reducing the temperature, the volatile solvent(s) is(are) then added to the mixture obtained. The homogeneous mixture obtained can then be cast in a suitable mould such as a lipstick mould or directly into the packaging articles (case or dish in particular).

[0120] Another aspect of the invention is a lipstick composition in stick form containing at least one continuous liquid fatty phase structured with at least one non-waxy structuring polymer having a weight-average molecular mass of less than 100 000, and at least one gelling agent for the liquid fatty phase, the liquid fatty phase, the structuring polymer and the gelling agent forming a physiologically acceptable medium, the gelling agent and the structuring polymer can give the composition the appearance of a deformable elastic solid with a hardness ranging from 30 to 300 gf, such as 30 to 250 gf, and further such as 30 to 200 gf, even in the absence of wax. The hardness is measured by the "cheese-wire" method described above. The non-waxy polymer may be a polymer whose skeleton comprises units containing a hetero atom, as defined previously, and further may be a polyamide that may contain (an) alkyl end group(s) linked to the skeleton via an ester group.

[0121] This lipstick composition in stick form may contain an additive chosen from fatty compounds that are pasty at room temperature, liposoluble polymers and mixtures thereof, as defined previously.

[0122] An aspect of the invention is also a care, make-up or treatment cosmetic process for keratin materials of human beings, and in particular the skin, the lips and superficial body growths, comprising the application to the keratin materials of the composition, in particular the cosmetic composition, as defined above.

[0123] An aspect of the invention is also a combination of at least one polymer having a weight-average molecular mass of less than 100 000, such as less than 50 000, comprising a) a polymer skeleton containing hydrocarbon-based repeating units containing at least one hetero atom, and b) optionally at least one pendant fatty chain and/or at least one terminal fatty chain that are optionally functionalized, containing from 8 to 120 carbon atoms and being linked to these hydrocarbon-based units, and of at least one gelling agent for the liquid fatty phase, in a cosmetic composition or for the manufacture of a physiologically acceptable composition, to obtain a solid composition, such as a wax-free composition, which does not exude and/or which can produce a glossy and/or comfortable deposit on keratin materials.

[0124] The compositions of the present invention may also further comprise water, optionally thickened with an aqueous-phase thickener or gelled with a gelling agent and/or containing ingredients soluble in water.

[0125] The invention is illustrated in greater detail in the examples which follow. The amounts are given as percentages by mass.

Example 1: Lipstick

[0126]

Phase A	
_ Uniclear 100	18%
_ isononyl isononanoate	5%
_ diisostearyl malate	17%
_ hydrogenated polybutene	4%
Phase B	
_ hydrophobic silica (Aerosil R972)	3%
_ hydrogenated polybutene	25%
_ isononyl isononanoate	12%
Phase C	
_ pigments	7%
_ hydrogenated polybutene	9%

Procedure

[0127] The Uniclear 100 was solubilized (or dissolved) at 100°C in a mixture of melted oils and wax, followed by addition of the pigments and fillers. The whole mixture was mixed using a deflocculating turbomixer (Raynerie) and left stirring for 1 h 30 min. The product obtained was then cast in molds for lipsticks in stick form.

a) Silica gel (phase B): The gel was prepared, with stirring in a Rayneri stirrer at 60°C, using a hotplate, by introducing the silica portionwise into the oily mixture formed from :

Hydrogenated polybutene	25 g
Isononyl isononanoate	12 g
TOTAL	40 g

b) Ground pigmentary material (phase C)

[0128] The pigments were mixed with the oil heated to 60°C; the mixture was ground three times in a three-roll mill.

[0129] The sticks of lipstick obtained had a diameter of 8.1 and a hardness of 46 ± 5 gf measured using a "cheese wire". These lipsticks were considered by testers as glossy and having good staying power. The stability of the compositions was tested using the test described herein. The composition was found to have good stability in that there was no exudation at room temperature (25°C) or at 37°C, or at 47°C, for 2 months.

Example 2: Lipsticks

[0130]

Phase A	
_ Uniclear 100V	18 %
Phase B	
_ Bentone 38V	3 %
_ diisostearyl malate	16.3 %
_ isononyl isononanoate	2.3 %
_ hydrogenated polybutene	36.4 %
_ hydrophobic silica (Aerosil R972)	3 %
Phase C	
_ Pigments	7 %
_ isononyl isononanoate	14 %

[0131] The silica was placed in a heating vessel and then dispersed using a Rayneri stirrer in the mixture of oils of

phase B, heated to about 60°C. When the gel obtained was homogeneous, the Bentone was added thereto. The mixture was then stirred until a homogeneous preparation was obtained, corresponding to phase B. Phase C was prepared by grinding the pigments in the hydrogenated polybutene using a three-roll mill.

[0132] Phase A was then heated to 100°C with phase B. When the mixture obtained was homogeneous, the ground material C was added and the resulting mixture was heated for 1 h 30 min with magnetic stirring. The preparation was then cast in a mold for lipsticks in stick form.

[0133] The sticks of lipstick obtained had a diameter of 8.1 mm and a hardness of 49 ± 5 gf. These sticks of lipstick did not exude at room temperature for several months, or at 37°C or at 47°C for 1 month. They deposited a glossy film which had good staying power and which did not migrate.

Example 3

[0134] Five clear anhydrous sunscreen sticks comprising compositions of the present invention were prepared. The tables below list the ingredients used.

TRADE NAME	RAW MATERIALS	COMPANY
Schercemol DISM	Diisostearyl Malate	Shear Chemical Inc.
Ceraphyl 45	Diocetyl Malate	ISP
Cristal O	Castor Oil	Chaschem
Nature Chem PGR	Propylene Glycol Ricinoleate	Chaschem
Macromelt 6212	Polyamide Resin	Henkel Corporation
Parsol 1789	Butyl Methoxydibenzoyl Methane	Givaudan-Roure
Neo Heliopan 303	Octylcrylene	Haarman & Reimer
Ethocel	Ethyl Cellulose	Dow Chemical

CLEAR ANHYDROUS SUNSCREEN (With Oil Soluble Polymers)

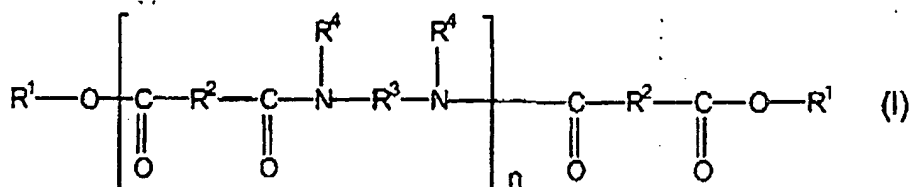
[0135]

RAW MATERIALS	A	B	C	D	E
Schercemol DISM (oil)	10	10	10	10	10
Ceraphyl 45 (oil)	20	20	20	20	20
Cristal O (oil)	26.15	24.15	22.9	23.9	23.15
Nature Chem PGR (oil)	10.5	10.5	10.5	10.5	10.5
Macromelt 6212 (polyamide)	16	16	16	16	16
N-Hance-AG-50 (gelling)	-	2	-	-	-
N-Hance-AG-200 (gelling)	-	-	3	-	-
Ethocel 100 (gelling)	-	-	-	2	-
Ethocel 7 (gelling)	-	-	-	-	3
Cetyl Alcohol	4	4	4	4	4
Propyl Paraben	0.1	0.1	0.1	0.1	0.1
Parsol 1789 (filter)	3	3	3	3	3
Neo Heliopan 303 (filter)	10	10	10	10	10
Flavoring Oil	0.25	0.25	0.5	0.5	0.25

Claims

1. A composition comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer is chosen from polyamide polymers of formula (1):



in which:

- n is an integer which represents the number of amide units ranging from 1 to 10;
- R¹, which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;
- R², which are identical or different, are each chosen from C₄ to C₄₂ hydrocarbon-based groups with the proviso that at least 50% of all R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;
- R³, which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R³ comprises at least 2 carbon atoms; and
- R⁴, which are identical or different, are each chosen from hydrogen atoms, C₁ to C₁₀ alkyl groups and a direct bond to at least one group chosen from R³ and another R⁴ such that when said at least one group is chosen from another R⁴, the nitrogen atom to which both R³ and R⁴ are bonded forms part of a heterocyclic structure defined in part by R⁴-N-R³, with the proviso that at least 50% of all R⁴ are chosen from hydrogen atoms; and

(ii) at least one gelling agent,

said composition containing less than 5% wax.

2. The composition according to claim 1, wherein in said formula (1), n is an integer ranging from 1 to 5.
3. The composition according to claim 1 or 2, wherein in said formula (1), said alkyl groups of R¹ and said alkenyl groups of R¹ each independently comprise from 4 to 24 carbon atoms.
4. The composition according to one of preceding claims, wherein in said formula (I), R¹, which are identical or different, are each chosen from C₁₂ to C₂₂ alkyl groups.
5. The composition according to one of preceding claims, wherein in said formula (I), R¹, which are identical or different, are each chosen from C₁₆ to C₂₂ alkyl groups.
6. The composition according to one of preceding claims, wherein in said formula (I), R², which are identical or different, are each chosen from C₁₀ to C₄₂ hydrocarbon based groups with the proviso that at least 50% of all R² are chosen from C₃₀ to C₄₂ hydrocarbon based groups.
7. The composition according to one of preceding claims, wherein in said formula (I), R³, which can be identical or different, are each chosen from C₂ to C₃₆ hydrocarbon-based groups and polyoxyalkylene groups.
8. The composition according to one of preceding claims, wherein R³ which can be identical or different, are each chosen from C₂ to C₁₂ hydrocarbon-based groups.
9. The composition according to one of preceding claims, wherein in said formula (I), R⁴, which can be identical or different, are each chosen from hydrogen atoms.

10. The composition according to one of preceding claims, wherein said at least one polymer of formula (I) is in the form of a mixture of polymers, wherein said mixture optionally also comprises a compound of formula (I) wherein n is equal to zero.
- 5 11. The composition according to one of preceding claims, wherein said at least one polyamide polymer has a softening point greater than 50°C.
12. The composition according to one of preceding claims, wherein said at least one polyamide polymer has a softening point is less than 150°C.
- 10 13. The composition according to one of preceding claims, wherein said at least one polyamide polymer has a softening point ranging from 70°C to 130°C.
14. The composition according to one of preceding claims, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 0.5% to 80% by weight relative to the total weight of the composition.
- 15 15. The composition according to one of preceding claims, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 2% to 60% by weight relative to the total weight of the composition.
- 20 16. The composition according to claim 1, wherein the composition is in a form chosen from a fluid anhydrous gel, rigid anhydrous gel, fluid simple emulsion, rigid simple emulsion, fluid multiple emulsion, and rigid multiple emulsion.
17. The composition according to one of claim 1 to 16, wherein said at least one structuring polymer has a weight-average molecular mass of less than 100,000.
- 25 18. The composition according to one of claims 1 to 17, wherein said at least one structuring polymer has a weight-average molecular mass of less than 50,000.
19. The composition according to one of claims 1 to 18, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 1000 to 30,000.
- 30 20. The composition according to one of preceding claims, wherein said composition has a hardness ranging from 30 to 300 gf.
- 35 21. The composition according to one of preceding claims, wherein said composition has a hardness ranging from 30 to 250 gf.
22. The composition according to one of preceding claims, wherein said at least one liquid fatty phase of the composition comprises at least one oil chosen from at least one polar oil and at least one apolar oil having an affinity with the least one structuring polymer.
- 40 23. The composition according to claim 22, wherein said at least one polar oil is chosen from:
 - hydrocarbon-based plant oils with a high content of triglycerides comprising fatty acid esters of glycerol in which the fatty acids comprise chains having from 4 to 24 carbon atoms, said chains optionally being chosen from linear and branched, and saturated and unsaturated chains;
 - synthetic oils or esters of formula R_5COOR_6 in which R_5 is chosen from linear and branched fatty acid residues comprising from 1 to 40 carbon atoms and R_6 is chosen from hydrocarbon-based chain containing from 1 to 40 carbon atoms, with the proviso that $R_5 + R_6 \geq 10$;
 - synthetic ethers containing from 10 to 40 carbon atoms;
 - C_8 to C_{26} fatty alcohols; and
 - C_8 to C_{26} fatty acids.
- 45 24. The composition according to claim 23, wherein said at least one apolar oil is chosen from:
 - silicone oils chosen from volatile and non-volatile, linear and cyclic polydimethylsiloxanes that are liquid at room temperature;
 - polydimethylsiloxanes comprising alkyl or alkoxy groups which are pendant and/or at the end of the silicone
- 55

chain, the groups each containing from 2 to 24 carbon atoms;

- phenylsilicones; and

- hydrocarbons chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin.

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25. The composition according to one of preceding claims, wherein said at least one liquid fatty phase comprises at least one non-volatile oil.

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26. The composition according to one of preceding claims, wherein said at least one liquid fatty phase is present in an amount ranging from 1 % to 99% by weight relative to the total weight of the composition.

27. The composition according to one of preceding claims, wherein said at least one liquid fatty phase is present in an amount ranging from 10% to 80% by weight relative to the total weight of the composition.

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28. The composition according to one of preceding claims, wherein said at least one liquid fatty phase comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of a silicone chain.

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29. The composition according to one of preceding claims, wherein said at least one gelling agent is chosen from gelling agents in polymeric form and gelling agents in mineral form.

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30. The composition according to one of preceding claims, wherein the at least one gelling agent is chosen from optionally modified clays, partially and totally crosslinked elastomeric polyorganosiloxanes, galactomannans comprising from 1 to 6 hydroxyl groups per saccharide, substituted with a saturated or unsaturated alkyl chain, ethylcellulose, silicone gums and block copolymers.

31. The composition according to claim 30, wherein said galactomannans comprise from 2 to 4 hydroxyl groups per saccharide.

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32. The composition according to one of preceding claims, wherein said at least one gelling agent is in mineral form with particle sizes that cause little or no light scattering.

33. The composition according to claim 32, wherein said at least one gelling agent is fumed silica.

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34. The composition according to one of preceding claims, wherein said at least one gelling agent is present in an amount ranging from 0.05% to 35% by weight relative to the total weight of the composition.

35. The composition according to one of preceding claims, wherein said at least one gelling agent is present in an amount ranging from 0.5 % to 20 % by weight relative to the total of the composition.

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36. The composition according to one of preceding claims, further comprising at least one amphiphilic compound that is liquid and non-volatile at room temperature and has a hydrophilic/lipophilic balance of less than 12.

37. The composition according to claim 36, wherein said hydrophilic/lipophilic balance value ranges from 1 to 8.

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38. The composition according to claim 36 or 37, wherein said at least one amphiphilic compound comprises a lipophilic part linked to a polar part, the lipophilic part comprising a carbon-based chain comprising at least 8 carbon atoms.

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39. The composition according to one of claims 36 to 38, wherein said at least one amphiphilic compound is present in an amount ranging from 0.1% to 35% by weight relative to the total weight of the composition.

40. The composition according to one of claims 36 to 39, wherein said at least one amphiphilic compound is present in an amount ranging from 1 % to 20% by weight relative to the total weight of the composition.

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41. The composition according to one of preceding claims, further comprising at least one additional additive chosen from antioxidants, essential oils, preserving agents, fragrances, fillers, waxes, fatty compounds that are pasty at room temperature, neutralizing agents, gums, liposoluble polymers and polymers that are dispersible in a lipophilic medium, cosmetic and dermatological active agents, dispersants, and an aqueous phase containing water that is

optionally thickened or gelled with an aqueous-phase thickener or gelling agent and optionally water-miscible compounds.

- 5 42. The composition according to one of preceding claims, further comprising at least one coloring agent.
43. The composition according to one of preceding claims, wherein said at least one coloring agent is chosen from lipophilic dyes, hydrophilic dyes, pigments and nactes.
- 10 44. The composition according to one of claims 42 to 43, wherein said at least one coloring agent is present in a proportion of from 0.01 % to 50% relative to the total weight of the composition.
45. The composition according to one of preceding claims, wherein said composition is a solid.
- 15 46. The composition according to one of preceding claims, wherein said composition is a solid chosen from molded and poured sticks.
47. The composition according to one of preceding claims, wherein said composition is in the form of a rigid gel.
- 20 48. The composition according to claim 1, wherein said wax is chosen from beeswax, carnauba wax, candelilla wax, ouricury wax, Japan wax, cork fibre wax, sugar cane wax, paraffin wax, lignite wax, microcrystalline waxes, lanolin wax, montan wax, ozokerites and hydrogenated oils, polyethylene waxes, waxes obtained by Fischer-Tropsch synthesis, fatty acid esters and glycerides that are solid at 40°C. and silicone waxes.
- 25 49. The composition according to one of preceding claims, wherein said composition is in the form of an anhydrous stick.
- 30 50. A mascara, an eyeliner, a foundation, a lipstick, a blusher, a make-up-removing product, a make-up product for the body, an eyeshadow, a face powder, a concealer product, a shampoo, a conditioner, an antisen product or a care product for the skin, lips, or hair comprising a composition comprising at least one liquid fatty phase in said mascara, eyeliner, foundation, blusher, lipstick, make-up-removing product, make-up product for the body, eyeshadow, face powder, concealer product, shampoo, conditioner, antisen product or care product for the skin, lips, or hair which comprises:
 - (i) at least one structuring polymer according to claim 1; and
 - (ii) at least one gelling agent,

35 said composition containing less than 5% wax.
- 40 51. A care and/or treatment and/or make-up composition for keratinous fibers, lips or skin comprising at least one liquid fatty phase in said care and/or treatment and/or make-up composition for keratinous fibers, lips or skin which comprises:
 - (i) at least one structuring polymer according to claim 1; and
 - (ii) at least one gelling agent,

45 said composition containing less than 5% wax.
52. A method for care, make-up or treatment of keratinous fibers, lips, or skin comprising applying to said keratinous fibers, lips, or skin a composition comprising at least one liquid fatty phase which comprises:
 - 50 (i) at least one structuring polymer according to claim 1; and
 - (ii) at least one gelling agent,

said composition containing than 5% wax.
- 55 53. A method for providing an anhydrous composition having at least one property chosen from non-exudation, gloss, and comfortable deposit on keratin materials chosen from lips, skin, and keratinous fibers, comprising including in said composition at least one liquid fatty phase which comprises:

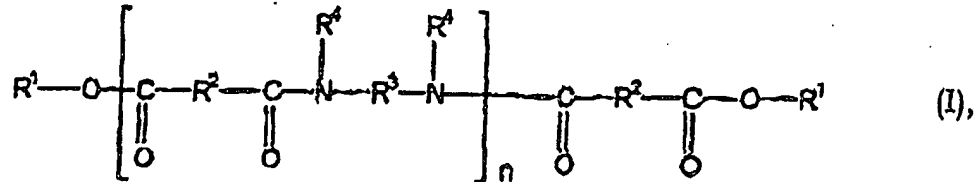
- (i) at least one structuring polymer according to claim 1; and
- (ii) at least one gelling agent.

54. A structured composition comprising at least one liquid fatty phase structured with at least one structuring polymer according to claim 1, and further comprising at least one gelling agent, said composition containing less than 5% wax.

Patentansprüche

1. Zusammensetzung mit mindestens einer flüssigen Fettphase, die enthält:

- (i) mindestens ein strukturgebendes Polymer, das unter Polyamidpolymeren der Formel (I) ausgewählt ist:



worin:

- n eine ganze Zahl von 1 bis 10 bedeutet, die die Zahl der Amideinheiten benennt;
- die Gruppen R¹, die gleich oder verschieden sind, jeweils unter Alkylgruppen mit mindestens 4 Kohlenstoffatomen und Alkenylgruppen mit mindestens 4 Kohlenstoffatomen ausgewählt sind;
- die Gruppen R², die gleich oder verschieden sind, jeweils unter C₄₋₄₂-Gruppen auf Kohlenwasserstoffbasis ausgewählt sind, mit der Maßgabe, dass mindestens 50 % aller Gruppen R² unter C₃₀₋₄₂-Gruppen auf Kohlenwasserstoffbasis ausgewählt sind;
- die Gruppen R³, die gleich oder verschieden sind, jeweils unter organischen Gruppen ausgewählt sind, die Atome enthalten, die unter Kohlenstoff, Wasserstoff, Sauerstoff und Stickstoff ausgewählt sind, mit der Maßgabe, dass R³ mindestens 2 Kohlenstoffatome enthält; und
- die Gruppen R⁴, die gleich oder verschieden sind, jeweils unter Wasserstoffatomen, C₁₋₁₀-Alkylgruppen und einer direkten Bindung zu zumindest einer Gruppe ausgewählt sind, die unter R³ oder einer anderen Gruppe R⁴ ausgewählt ist, in der Weise, dass das Stickstoffatom, an das sowohl R³ als auch R⁴ gebunden sind, einen Teil der heterocyclischen Struktur bildet, die zum Teil von R⁴-N-R³ gebildet wird, wenn die zumindest eine Gruppe unter einer anderen Gruppe R⁴ ausgewählt ist, mit der Maßgabe, dass mindestens 50 % der Gruppen R⁴ unter Wasserstoff ausgewählt sind; und

- (ii) mindestens einen Gelbildner,

wobei diese Zusammensetzung weniger als 5 % Wachs enthält.

2. Zusammensetzung nach Anspruch 1, wobei in Formel (I) n eine ganze Zahl im Bereich von 1 bis 5 ist.
3. Zusammensetzung nach einem der Ansprüche 1 oder 2, wobei in der Formel (I) die Alkylgruppen von R¹ und die Alkenylgruppen von R¹ jeweils unabhängig voneinander 4 bis 24 Kohlenstoffatome enthalten.
4. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei in der Formel (I) die Gruppen R¹, die gleich oder verschieden sind, jeweils unter C₁₂₋₂₂-Alkylgruppen ausgewählt sind.
5. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei in der Formel (I) die Gruppen R¹, die gleich oder verschieden sind, jeweils unter C₁₆₋₂₂-Alkylgruppen ausgewählt sind.
6. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei in der Formel (I) die Gruppen R², die gleich oder verschieden sind, jeweils unter C₁₀₋₄₂-Gruppen auf Kohlenwasserstoffbasis ausgewählt sind, mit der Maßgabe, dass mindestens 50 % aller Gruppen R² unter C₃₀₋₄₂-Gruppen auf Kohlenwasserstoffbasis ausgewählt sind.

7. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei in der Formel (I) die Gruppen R³, die gleich oder verschieden sein können, jeweils unter C₂₋₃₆-Gruppen auf Kohlenwasserstoffbasis und Polyoxyalkylengruppen ausgewählt sind.
- 5 8. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die Gruppen R³, die gleich oder verschieden sein können, jeweils unter C₂₋₁₂-Gruppen auf Kohlenwasserstoffbasis ausgewählt sind.
9. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei in der Formel (I) die Gruppen R⁴, die gleich oder verschieden sein können, alle Wasserstoffatome sind.
- 10 10. Zusammensetzung nach einem der vorhergehenden Ansprüche, worin das zumindest eine Polymer der Formel (I) in Form eines Polymerengemisches vorliegt, wobei dieses Gemisch gegebenenfalls auch eine Verbindung der Formel (I) enthält, in der n gleich Null ist.
- 15 11. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei das zumindest eine Polyamidpolymer einen Erweichungspunkt von höher als 50 °C aufweist.
12. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei das zumindest eine Polyamidpolymer einen Erweichungspunkt von niedriger als 150 °C aufweist.
- 20 13. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei das zumindest eine Polyamidpolymer einen Erweichungspunkt von 70 bis 130 °C aufweist.
- 25 14. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei das zumindest eine Polyamidpolymer in einer Menge von 0,5 bis 80 Gew.-%, bezogen auf das Gesamtgewicht der Zusammensetzung, in der Zusammensetzung vorliegt.
- 30 15. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei das zumindest eine Polyamidpolymer in einer Menge von 2 bis 60 Gew.-%, bezogen auf das Gesamtgewicht der Zusammensetzung, in der Zusammensetzung vorliegt.
- 35 16. Zusammensetzung nach Anspruch 1, wobei die Zusammensetzung in einer Form vorliegt, die unter einem fluiden wasserfreien Gel, einem starren wasserfreien Gel, einer fluiden Einfachemulsion, einer starren Einfachemulsion, einer fluiden Mehrfachemulsion und einer starren Mehrfachemulsion ausgewählt ist.
17. Zusammensetzung nach einem der Ansprüche 1 bis 16, wobei das zumindest eine strukturgebende Polymer eine gewichtsmittlere Molmasse von weniger als 100 000 aufweist.
- 40 18. Zusammensetzung nach einem der Ansprüche 1 bis 17, wobei das zumindest eine strukturgebende Polymer eine gewichtsmittlere Molmasse von weniger als 50 000 aufweist.
19. Zusammensetzung nach einem der Ansprüche 1 bis 18, wobei das zumindest eine strukturgebende Polymer eine gewichtsmittlere Molmasse von 1 000 bis 30 000 aufweist.
- 45 20. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die Zusammensetzung eine Härte von 30 bis 300 gf aufweist,
21. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die Zusammensetzung eine Härte von 30 bis 250 gf aufweist.
- 50 22. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die zumindest eine flüssige Fettphase der Zusammensetzung zumindest ein Öl enthält, das unter mindestens einem polaren Öl und mindestens einem apolaren Öl ausgewählt ist, das eine Affinität zu dem zumindest einen strukturgebenden Polymer zeigt.
- 55 23. Zusammensetzung nach Anspruch 22, worin das zumindest eine polare Öl ausgewählt ist unter:
 - pflanzlichen Ölen auf Kohlenwasserstoffbasis mit einem hohen Gehalt an Triglyceriden, die Glycerylfettsäureester umfassen, in denen die Fettsäurenketten 4 bis 24 Kohlenstoff atome aufweisen, wobei die Ketten

- gegebenenfalls unter geradkettigen und verzweigten, gesättigten und ungesättigten Ketten ausgewählt sind;
- synthetischen Ölen oder Estern der Formel R_5COOR_6 , in der R_5 unter geradkettigen und verzweigten Fettsäureresten mit 1 bis 40 Kohlenstoffatomen und R_6 unter einer Kette auf Kohlenwasserstoffbasis mit 1 bis 40 Kohlenstoffatomen ausgewählt ist, mit der Maßgabe, dass $R_5 + R_6 \geq 10$ ist;
 - synthetischen Ethern mit 10 bis 40 Kohlenstoffatomen;
 - C_{8-26} -Fettalkoholen; und
 - C_{8-26} -Fettsäuren.

24. Zusammensetzung nach Anspruch 23, wobei das zumindest eine apolare Öl ausgewählt ist unter:

- Siliconölen, die unter flüchtigen und nicht flüchtigen, geradkettigen und cyclischen Polydimethylsiloxanen ausgewählt sind, die bei Raumtemperatur flüssig sind;
- Polydimethylsiloxanen mit Alkylgruppen oder Alkoxygruppen, die als Seitenketten und/oder am Ende der Siliconkette vorliegen, wobei jede Gruppen jeweils 2 bis 24 Kohlenstoffatome enthält;
- Phenylsiliconen; und
- Kohlenwasserstoffen, die unter geradkettigen und verzweigten, flüchtigen und nicht flüchtigen Kohlenwasserstoffen synthetischen und mineralischen Ursprungs ausgewählt sind.

25. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die zumindest eine flüssige Fettphase zumindest ein nicht flüchtiges Öl enthält.

26. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die zumindest eine flüssige Fettphase in einer Menge von 1 bis 99 Gew.-%, bezogen auf das Gesamtgewicht der Zusammensetzung, vorliegt.

27. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die zumindest eine flüssige Fettphase in einer Menge von 10 bis 80 Gew.-%, bezogen auf das Gesamtgewicht der Zusammensetzung, vorliegt.

28. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die zumindest eine flüssige Fettphase zumindest ein flüchtiges Lösungsmittel enthält, das unter Lösungsmitteln auf Kohlenwasserstoffbasis und Siliconlösungsmitteln ausgewählt ist, die gegebenenfalls Alkylgruppen oder Alkoxygruppen beinhalten, die als Seitenketten oder am Ende der Siliconkette vorliegen.

29. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei der zumindest eine Gelbildner unter Gelbildnern in polymerer Form und Gelbildnern in anorganischer Form ausgewählt ist.

30. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei der zumindest eine Gelbildner unter gegebenenfalls modifizierten Tönen, teilweise oder ganz quer vernetzten elastomeren Polyorganosiloxanen, Galactomannanen mit 1 bis 6 Hydroxygruppen pro Saccharideinheit, die mit einer gesättigten oder ungesättigten Alkylkette substituiert sind, Ethylcellulose, Silicongummis und Blockcopolymeren ausgewählt ist.

31. Zusammensetzung nach Anspruch 30, wobei die Galactomannane 2 bis 4 Hydroxygruppen pro Saccharideinheit aufweisen.

32. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei der zumindest eine Gelbildner in anorganischer Form in Partikelgrößen vorliegt, die wenig oder gar keine Lichtstreuung verursachen.

33. Zusammensetzung nach Anspruch 32, wobei der zumindest eine Gelbildner pyrogene Kieselsäure ist.

34. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei der zumindest eine Gelbildner in einer Menge von 0,05 bis 35 Gew.-%, bezogen auf das Gesamtgewicht der Zusammensetzung, vorliegt.

35. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei der zumindest eine Gelbildner in einer Menge von 0,5 bis 20 Gew.-%, bezogen auf das Gesamtgewicht der Zusammensetzung, vorliegt.

36. Zusammensetzung nach einem der vorhergehenden Ansprüche, die ferner mindestens eine amphiphile Verbindung enthält, die bei Raumtemperatur flüssig und nicht flüchtig ist und einen HLB-Wert (Hydrophilic/Lipophilic Balance) von weniger als 12 aufweist.

37. Zusammensetzung nach Anspruch 36, wobei der HLB-Wert im Bereich von 1 bis 8 liegt.

38. Zusammensetzung nach den Ansprüchen 36 oder 37, wobei die zumindest eine amphiphile Verbindung einen lipophilen Teil aufweist, der an einen polaren Teil gebunden ist, wobei der lipophile Teil eine Kette auf Kohlenstoffbasis mit mindestens 8 Kohlenstoffatomen enthält.

39. Zusammensetzung nach einem der Ansprüche 36 bis 38, wobei die zumindest eine amphiphile Verbindung in einer Menge von 0, 1 bis 35 Gew. -%, bezogen auf das Gesamtgewicht der Zusammensetzung, vorliegt.

40. Zusammensetzung nach einem der Ansprüche 36 bis 39, worin die zumindest eine amphiphile Verbindung in einer Menge von 1 bis 20 Gew.-% vorliegt, bezogen auf das Gesamtgewicht der Zusammensetzung.

41. Zusammensetzung nach einem der vorhergehenden Ansprüche, die ferner mindestens einen ergänzenden Zusatzstoff enthält, der ausgewählt ist unter Antioxidantien, etherischen Ölen, Konservierungsmitteln, Parfums, Füllstoffen, Wachsen, bei Raumtemperatur pastösen Fettsubstanzen, neutralisierenden Bestandteilen, Gummis, fettlöslichen Polymeren und in einem lipophilen Medium dispergierbaren Polymeren, kosmetischen und dermatologischen Wirkstoffen und Dispergiermitteln, sowie einer wässrigen Phase, die Wasser, das gegebenenfalls mit einem Verdickungsmittel oder Gelbildner angedickt oder geliert ist, und gegebenenfalls mit Wasser mischbare Verbindungen enthält.

42. Zusammensetzung nach einem der vorhergehenden Ansprüche, die ferner mindestens ein Farbmittel enthält.

43. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei das zumindest eine Farbmittel unter lipophilen Farbstoffen, hydrophilen Farbstoffen, Pigmenten und Perlglanzpigmenten ausgewählt ist.

44. Zusammensetzung nach einem der Ansprüche 42 und 43, wobei das zumindest eine Farbmittel in einem Anteil von 0,01 bis 50 %, bezogen auf das Gesamtgewicht der Zusammensetzung, vorliegt.

45. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die Zusammensetzung in fester Form vorliegt.

46. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die Zusammensetzung als Feststoff vorliegt, der unter geformten und gegossenen Stiften ausgewählt ist.

47. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die Zusammensetzung als starres Gel vorliegt.

48. Zusammensetzung nach Anspruch 1, wobei das Wachs unter Bienenwachs, Carnaubawachs, Candelillawachs, Ouricurywachs, Japanwachs, Korkfaserwachs, Zuckerrohrwachs, Paraffinwachs, Lignitwachs, mikrokristallinen Wachsen, Lanolinwachs, Montanwachs, Ozokeriten und gehärteten Ölen, Polyethylenwachsen, Wachsen, die durch Fischer-Tropsch-Synthese erhalten werden, Fettsäureestern und Glyceriden, die bei 40 °C fest sind, sowie Siliconwachsen ausgewählt ist.

49. Zusammensetzung nach einem der vorhergehenden Ansprüche, wobei die Zusammensetzung in Form eines wasserfreien Stiftes vorliegt.

50. Mascara, Eyeliner, Grundierung, Lippenstift, Rouge, Abschminkprodukt, Make-up für den Körper, Lidschatten, Gesichtspuder, Abdeckprodukt, Haarwaschmittel, Konditioner, Sonnenschutzprodukt oder Pflegeprodukt für die Haut, die Lippen oder die Haare, die eine Zusammensetzung enthalten, die zumindest eine flüssige Fettphase in der Mascara, dem Eyeliner, der Grundierung, dem Rouge, dem Lippenstift, dem Abschminkprodukt, dem Make-up für den Körper, dem Lidschatten, dem Gesichtspuder, dem Abdeckprodukt, dem Haarwaschmittel, dem Konditioner, dem Sonnenschutzprodukt oder dem Pflegeprodukt für die Haut, die Lippen oder die Haare beinhaltet, die aufweist:

- (i) mindestens ein strukturgebendes Polymer nach Anspruch 1; und
- (ii) mindestens einen Gelbildner,

wobei die Zusammensetzung weniger als 5 % Wachs enthält.

51. Zusammensetzung zur Pflege und/ oder zur Behandlung und/oder als Make-up der Keratinfasern, der Lippen oder der Haut, die in der Zusammensetzung zur Pflege und/oder zur Behandlung und/oder für ein Make-up der Keratinfasern, der Lippen oder der Haut zumindest eine flüssige Fettphase beinhaltet, die aufweist:

- (i) zumindest ein strukturgebendes Polymer nach Anspruch 1; und
(ii) zumindest einen Gelbildner,

wobei diese Zusammensetzung weniger als 5 % Wachs umfasst.

52. Verfahren zur Pflege, zum Schminken oder zur Behandlung der Keratinfasern, der Lippen oder der Haut, das das Auftragen einer Zusammensetzung auf die Keratinfasern, die Lippen oder die Haut umfasst, die zumindest eine flüssige Fettphase beinhaltet, die aufweist:

- (i) zumindest ein strukturgebendes Polymer nach Anspruch 1; und
(ii) zumindest einen Gelbildner,

wobei die Zusammensetzung weniger als 5 % Wachs enthält.

53. Verfahren zum Bereitstellen einer wasserfreien Zusammensetzung, die zumindest eine Eigenschaft aufweist, die unter den Eigenschaften ausgewählt ist, dass sie nicht ausschwitzt, glänzt und sich auf Keratinsubstanzen angenehm auftragen lässt, die unter Lippen, Haut und Keratinfasern ausgewählt ist, das umfasst, dass in die Zusammensetzung mindestens eine flüssige Fettphase eingearbeitet wird, die enthält:

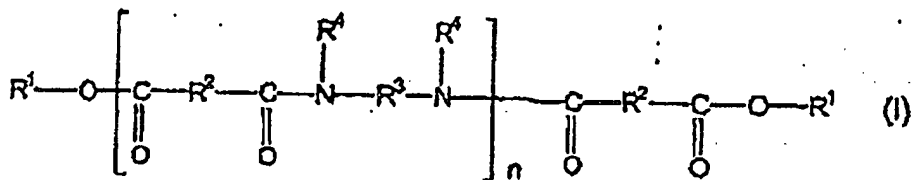
- (i) zumindest ein strukturgebendes Polymer nach Anspruch 1; und
(ii) zumindest einen Gelbildner.

54. Strukturaufweisende Zusammensetzung, die zumindest eine flüssige Fettphase umfasst, die mit zumindest einem strukturgebenden Polymer nach Anspruch 1 strukturiert ist, und die ferner zumindest einen Gelbildner aufweist, wobei die Zusammensetzung weniger als 5 % Wachs beinhaltet.

Revendications

1. Composition comprenant au moins une phase grasse liquide qui comprend :

- (i) au moins un polymère structurant choisi parmi les polymères polyamides de formule (1) ;



dans laquelle :

- n est un nombre entier qui représente le nombre de motifs amide, allant de 1 à 10 ;
- les radicaux R¹, qui sont identiques ou différents, sont chacun choisis parmi des groupes alkyle comprenant au moins 4 atomes de carbone et des groupes alcényle comprenant au moins 4 atomes de carbone ;
- les radicaux R², qui sont identiques ou différents, sont chacun choisis parmi des groupes hydrocarbonés en C₄ à C₄₂, sous réserve qu'au moins 50% de tous les radicaux R² soient choisis parmi des groupes hydrocarbonés en C₃₀ à C₄₂ ;
- les radicaux R³, qui sont identiques ou différents, sont chacun choisis parmi des groupes organiques comprenant des atomes choisis parmi les atomes de carbone, les atomes d'hydrogène, les atomes d'oxygène et les atomes d'azote, sous réserve que R³ comprenne au moins 2 atomes de carbone ; et
- les radicaux R⁴, qui sont identiques ou différents, sont chacun choisis parmi des atomes d'hydrogène, des groupes alkyle en C₁ à C₁₀ et une liaison directe à au moins un groupe choisi parmi R³ et un autre

radical R^4 de telle sorte que, lorsque ledit au moins un groupe est choisi parmi un autre radical R^4 , l'atome d'azote auquel les deux radicaux R^3 et R^4 sont liés fasse partie d'une structure hétérocyclique définie en partie par R^4-N-R^3 , sous réserve qu'au moins 50% de tous les radicaux R^4 soient choisis parmi des atomes d'hydrogène ; et

5

(ii) au moins un agent gélifiant,

ladite composition contenant moins de 5% de cire.

- 10 2. Composition selon la revendication 1, dans laquelle, dans ladite formule (I), n est un nombre entier allant de 1 à 5.
3. Composition selon la revendication 1 ou 2, dans laquelle, dans ladite formule (I), lesdits groupes alkyle de R^1 et lesdits groupes alcényle de R^1 comprennent chacun indépendamment de 4 à 24 atomes de carbone.
- 15 4. Composition selon l'une des revendications précédentes, dans laquelle, dans ladite formule (I), les radicaux R^1 , qui sont identiques ou différents, sont chacun choisis parmi des groupes alkyle en C_{12} à C_{22} .
5. Composition selon l'une des revendications précédentes, dans laquelle, dans ladite formule (I), les radicaux R^1 , qui sont identiques ou différents, sont chacun choisis parmi des groupes alkyle en C_{16} à C_{22} .
- 20 6. Composition selon l'une des revendications précédentes, dans laquelle, dans ladite formule (I), les radicaux R^2 , qui sont identiques ou différents, sont chacun choisis parmi des groupes hydrocarbonés en C_{10} à C_{42} , sous réserve qu'au moins 50% de tous les radicaux R^2 soient choisis parmi des groupes hydrocarbonés C_{30} à C_{42} .
- 25 7. Composition selon l'une des revendications précédentes, dans laquelle, dans ladite formule (I), les radicaux R^3 , qui peuvent être identiques ou différents, sont chacun choisis parmi des groupes hydrocarbonés en C_2 à C_{36} et des groupes polyoxyalkylène.
8. Composition selon l'une des revendications précédentes, dans laquelle les radicaux R^3 , qui peuvent être identiques ou différents, sont chacun choisis parmi des groupes hydrocarbonés en C_2 à C_{12} .
- 30 9. Composition selon l'une des revendications précédentes, dans laquelle, dans ladite formule (I), les radicaux R^4 , qui peuvent être identiques ou différents, sont chacun choisis parmi des atomes d'hydrogène.
- 35 10. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un polymère de formule (I) est sous forme de mélange de polymères, dans laquelle ledit mélange comprend aussi éventuellement un composé de formule (I), dans laquelle n est égal à zéro.
- 40 11. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un polymère polyamide possède un point de ramollissement supérieur à 50°C.
12. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un polymère polyamide possède un point de ramollissement inférieur à 150°C.
- 45 13. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un polymère polyamide possède un point de ramollissement allant de 70°C à 130°C.
14. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un polymère polyamide est présent dans la composition en une quantité allant de 0,5% à 80% en poids par rapport au poids total de la composition.
- 50 15. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un polymère polyamide est présent dans la composition en une quantité allant de 2% à 60% en poids par rapport au poids total de la composition.
- 55 16. Composition selon la revendication 1, dans laquelle la composition est sous une forme choisie parmi un gel anhydre fluide, un gel anhydre rigide, une émulsion simple fluide, une émulsion simple rigide, une émulsion multiple fluide et une émulsion multiple rigide.

17. Composition selon l'une des revendications 1 à 1. 6, dans laquelle ledit au moins un polymère structurant possède une masse moléculaire moyenne en poids inférieure à 100 000.
- 5 18. Composition selon l'une des revendications 1 à 17, dans laquelle ledit au moins un polymère structurant possède une masse moléculaire moyenne en poids inférieure à 50 000.
19. Composition selon l'une des revendications 1 à 18, dans laquelle ledit au moins un polymère structurant possède une masse moléculaire moyenne en poids allant de 1 000 à 30 000.
- 10 20. Composition selon l'une des revendications précédentes, dans laquelle ladite composition possède une dureté allant de 30 à 300 gf.
21. Composition selon l'une des revendications précédentes, dans laquelle ladite composition possède une dureté allant de 30 à 250 gf.
- 15 22. Composition selon l'une des revendications précédentes, dans laquelle ladite au moins une phase grasse liquide de la composition comprend au moins une huile choisie parmi au moins une huile polaire et au moins une huile non polaire ayant une affinité avec le au moins un polymère structurant.
- 20 23. Composition selon la revendication 22, dans laquelle ladite au moins une huile polaire est choisie parmi :
 - les huiles végétales hydrocarbonés ayant une teneur élevée en triglycérides comprenant des esters d'acide gras de glycérol dans lesquels les acides gras comprennent des chaînes comportant de 4 à 24 atomes de carbone, lesdites chaînes étant éventuellement choisies parmi les chaînes linéaires et ramifiées, et les chaînes saturées et insaturées ;
 - 25 - les huiles synthétiques ou les esters de formule R_5COOR_6 , dans laquelle R_5 est choisi parmi les résidus acide gras linéaires et ramifiés comprenant de 1 à 40 atomes de carbone et R_6 est choisi parmi une chaîne hydrocarbonés contenant de 1 à 40 atomes de carbone, sous réserve que $R_5 + R_6 \geq 10$;
 - les éthers synthétique contenant de 10 à 40 atomes de carbone ;
 - 30 - les alcools gras en Ce à C_{26} ; et
 - les acides gras en Ce à C_{26} .
24. Composition selon la revendication 23, dans laquelle ladite au moins une huile non polaire est choisie parmi :
 - 35 - les huiles de silicone choisies parmi les polydiméthylsiloxanes linéaires et cycliques, volatils et non volatils, qui sont liquides à la température ambiante ;
 - les polydiméthylsiloxanes comprenant des groupes alkyle ou alcoxy qui sont pendants et/ou qui sont situés à l'extrémité de la chaîne de silicone, les groupes contenant chacun de 2 à 24 atomes de carbone ;
 - les phénylsilicones ; et
 - 40 - les hydrocarbures choisis parmi les hydrocarbures volatils et non volatils, linéaires et ramifiés, d'origine synthétique et minérale.
25. Composition selon l'une des revendications précédentes, dans laquelle ladite au moins une phase grasse liquide comprend au moins une huile non volatile.
- 45 26. Composition selon l'une des revendications précédentes, dans laquelle ladite au moins une phase grasse liquide est présente en une quantité allant de 1% à 99% en poids par rapport au poids total de la composition.
27. Composition selon l'une des revendications précédentes, dans laquelle ladite au moins une phase grasse liquide est présente en une quantité allant de 10% à 80% en poids par rapport au poids total de la composition.
- 50 28. Composition selon l'une des revendications précédentes, dans laquelle ladite au moins une phase grasse liquide comprend au moins un solvant volatil choisi parmi les solvants hydrocarbonés et les solvants de type silicone comprenant éventuellement des groupes alkyle ou alcoxy qui sont pendants ou qui sont situés à l'extrémité d'une chaîne de silicone.
- 55 29. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un agent gélifiant est choisi parmi les agents gélifiants de forme polymère et les agents gélifiants de forme minérale.

- 5 30. Composition selon l'une des revendications précédentes, dans laquelle le au moins un agent gélifiant est choisi parmi les argiles éventuellement modifiées, les polyorganosiloxanes élastomères partiellement et totalement réticulés, les galactomannanes comprenant de 1 à 6 groupes hydroxyle par saccharide, substitués par une chaîne alkyle saturée ou insaturée, l'éthylcellulose, les gommes de silicone et les copolymères séquencés.
31. Composition selon la revendication 30, dans laquelle lesdits galactomannanes comprennent de 2 à 4 groupes hydroxyle par saccharide.
- 10 32. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un agent gélifiant est de forme minérale avec des granulométries qui provoquent peu ou pas de dispersion de la lumière.
33. Composition selon la revendication 32, dans laquelle ledit au moins un agent gélifiant est de la fumée de silice.
- 15 34. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un agent gélifiant est présent en une quantité allant de 0,05% à 35% en poids par rapport au poids total de la composition.
35. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un agent gélifiant est présent en une quantité allant de 0,5% à 20% en poids par rapport au total de la composition.
- 20 36. Composition selon l'une des revendications précédentes, comprenant en outre au moins un composé amphiphile qui est liquide et non volatil à la température ambiante et qui présente un équilibre hydro-lipophile inférieur à 12.
37. Composition selon la revendication 36, dans laquelle ledit rapport hydro-lipophile s'échelonne de 1 à 8.
- 25 38. Composition selon la revendication 36 ou 37, dans laquelle ledit au moins un composé amphiphile comprend une partie lipophile reliée à une partie polaire, la partie lipophile comprenant une chaîne carbonée comprenant au moins 8 atomes de carbone.
- 30 39. Composition selon l'une des revendications 36 à 38, dans laquelle ledit au moins un composé amphiphile est présent en une quantité allant de 0,1% à 35% en poids par rapport au poids total de la composition.
- 40 40. Composition selon l'une des revendications 36 à 39, dans laquelle ledit au moins un composé amphiphile est présent en une quantité allant de 1% à 20% en poids par rapport au poids total de la composition.
- 35 41. Composition selon l'une des revendications précédentes, comprenant en outre au moins un additif supplémentaire choisi parmi les antioxydants, les huiles essentielles, les agents conservateurs, les parfums, les charges, les cires, les composés gras qui sont pâteux à la température ambiante, les agents neutralisants, les gommes, les polymères liposolubles et les polymères qui peuvent être dispersés dans un milieu lipophile, les agents actifs cosmétiques et dermatologiques, les dispersants, et une phase aqueuse contenant de l'eau qui est éventuellement épaissie ou
- 40 42. Composition selon l'une des revendications précédentes, comprenant en outre au moins un agent colorant.
- 45 43. Composition selon l'une des revendications précédentes, dans laquelle ledit au moins un agent colorant est choisi parmi les colorants lipophiles, les colorants hydrophiles, les pigments et les nacres.
44. Composition selon l'une des revendications 42 à 43, dans laquelle ledit au moins un agent colorant est présent dans une proportion de 0,01% à 50% par rapport au poids total de la composition.
- 50 45. Composition selon l'une des revendications précédentes, dans laquelle ladite composition est un solide.
46. Composition selon l'une des revendications précédentes, dans laquelle ladite composition est un solide choisi parmi les bâtons moulés ou coulés.
- 55 47. Composition selon l'une des revendications précédentes, dans laquelle ladite composition est sous forme de gel rigide.

48. Composition selon la revendication 1, dans laquelle ladite cire est choisie parmi la cire d'abeille, la cire de carnauba, la cire de candéilla, la cire de *Syagrus coronata*, la cire du Japon, la cire de fibre d'écorce, la cire de sucre de canne, la cire de paraffine, la cire de lignite, les cires microcristallines, la cire de lanoline, la cire de Montan, les ozocérites et les huiles hydrogénées, les cires de polyéthylène, les cires obtenues par synthèse de Fischer-Tropsch, les esters d'acides gras et les glycérides qui sont solides à 40°C, et les cires de silicone.

49. Composition selon l'une des revendications précédentes, dans laquelle ladite composition est sous forme de bâton anhydre.

50. Mascara, eyeliner, fond de teint, rouge à lèvres, fard à joues, produit démaquillant, produit de maquillage pour le corps, ombre à paupières, poudre pour le visage, produit anti-cernes, shampooing, après-shampooing, produit antisolaires ou produit de soin pour la peau, les lèvres ou les cheveux comprenant une composition comprenant au moins une phase grasse liquide dans ledit mascara, eyeliner, fond de teint, fard à joues, rouge à lèvres, produit démaquillant, produit de maquillage pour le corps, ombre à paupières, poudre pour le visage, produit anti-cernes, shampooing, après-shampooing, produit antisolaires ou produit de soin pour la peau, les lèvres ou les cheveux, qui comprend

(i) au moins un polymère structurant selon la revendication 1 ; et

(ii) au moins un agent gélifiant,

ladite composition contenant moins de 5% de cire.

51. Composition de soin et/ou de traitement et/ou de maquillage pour les fibres kératiniques, les lèvres ou la peau comprenant au moins une phase grasse liquide dans ladite composition de soin et/ou de traitement et/ou de maquillage pour les fibres kératiniques, les lèvres ou la peau qui comprend :

(i) au moins un polymère structurant selon la revendication 1 ; et

(ii) au moins un agent gélifiant,

ladite composition contenant moins de 5% de cire.

52. Procédé de soin, maquillage ou traitement des fibres kératiniques, des lèvres ou de la peau comprenant l'application, sur lesdites fibres kératiniques, lesdites lèvres ou ladite peau, d'une composition comprenant au moins une phase grasse liquide qui comprend :

(i) au moins un polymère structurant selon la revendication 1 ; et

(ii) au moins un agent gélifiant,

ladite composition contenant moins de 5% de cire.

53. Procédé permettant d'obtenir une composition anhydre ayant au moins une propriété choisie parmi l'absence d'exsudation, le brillant et le confort de dépôt sur les matières kératiniques choisies parmi les lèvres, la peau et les fibres kératiniques, comprenant le fait d'incorporer, dans ladite composition, au moins une phase grasse liquide qui comprend :

(i) au moins un polymère structurant selon la revendication 1 ; et

(ii) au moins un agent gélifiant,

54. Composition structurée comprenant au moins une phase grasse liquide structurée avec au moins un polymère structurant selon la revendication 1, et comprenant en outre au moins un agent gélifiant, ladite composition contenant moins de 5% de cire.